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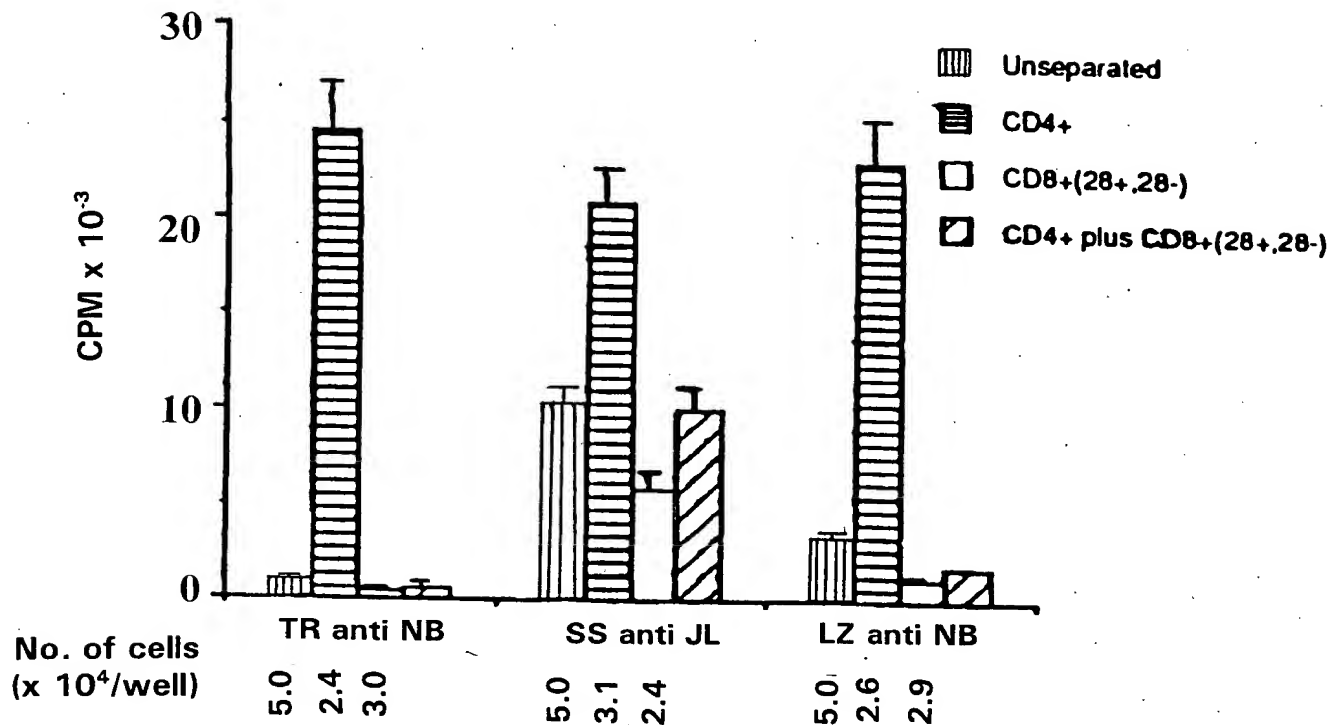
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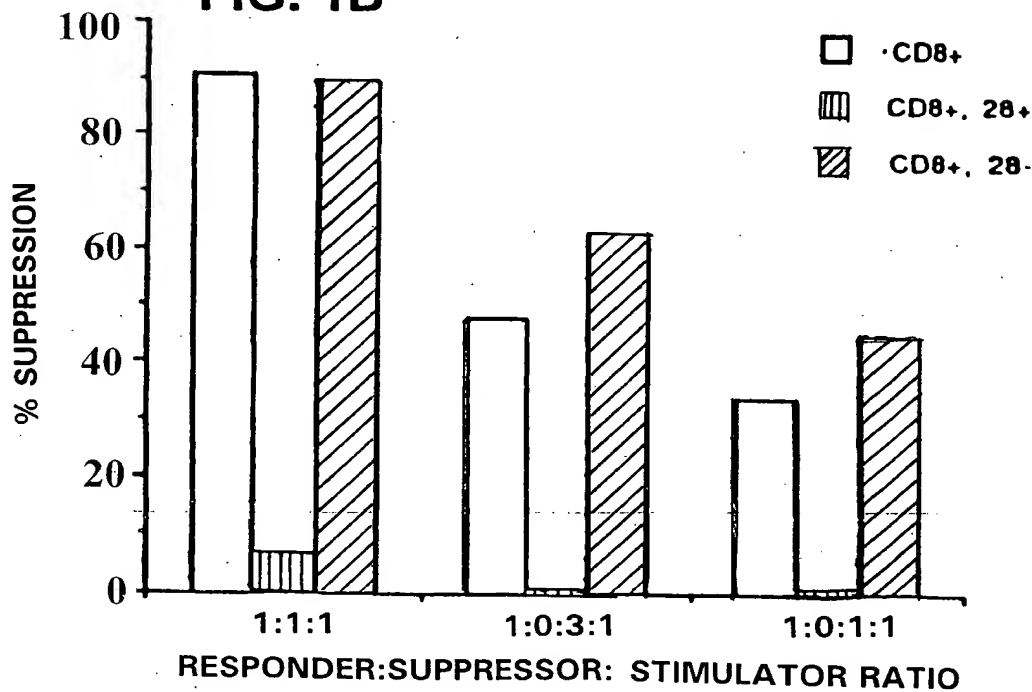


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**FIG. 1A**



**FIG. 1B**





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FIGURE 1C

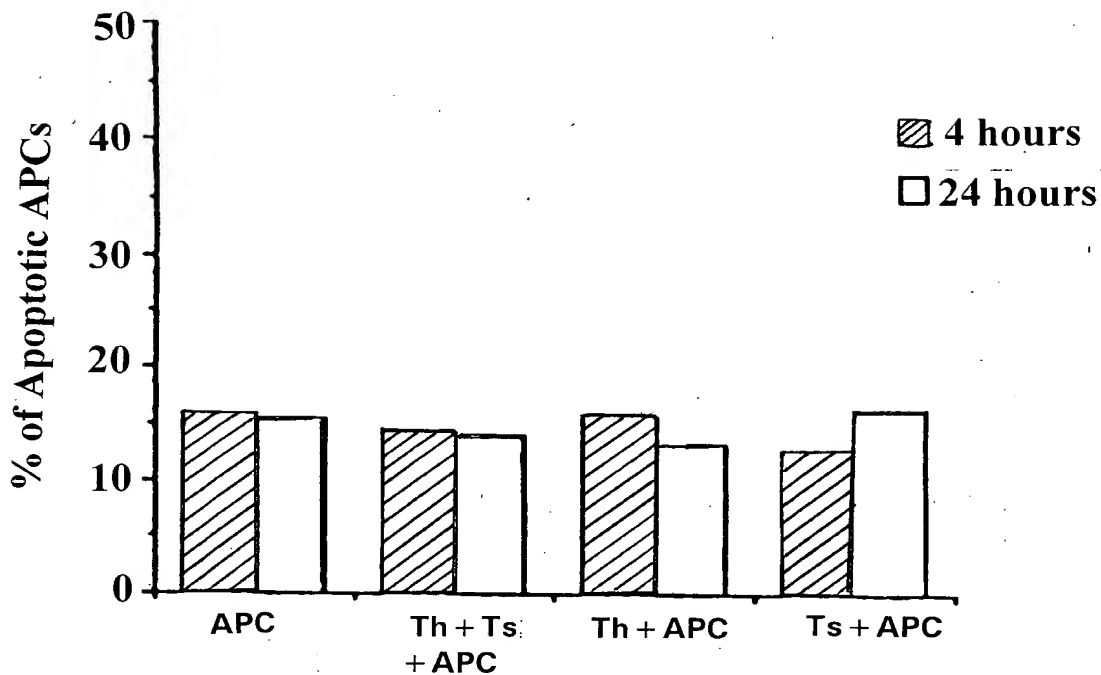
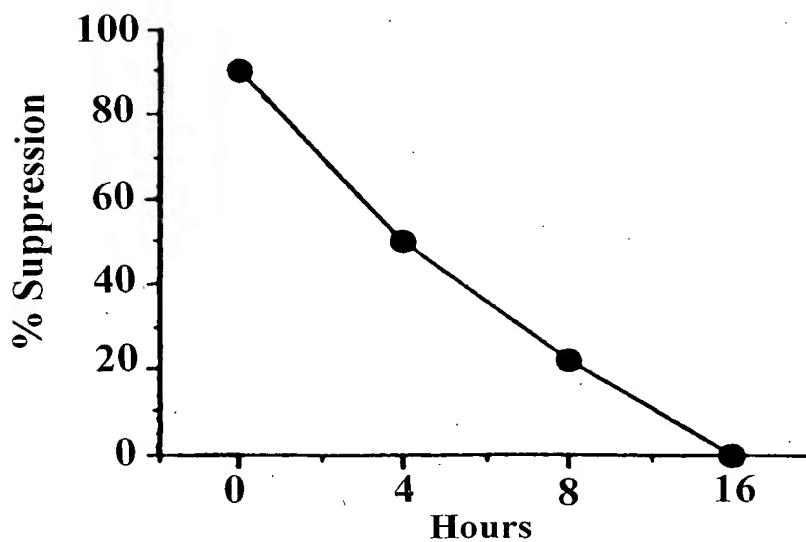


FIGURE 1D





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FIGURE 2A

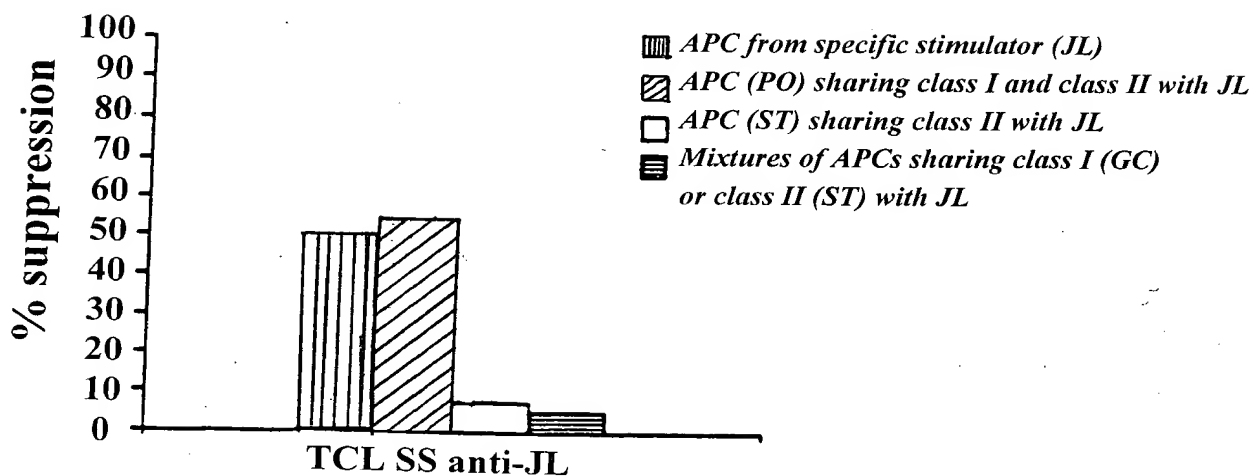
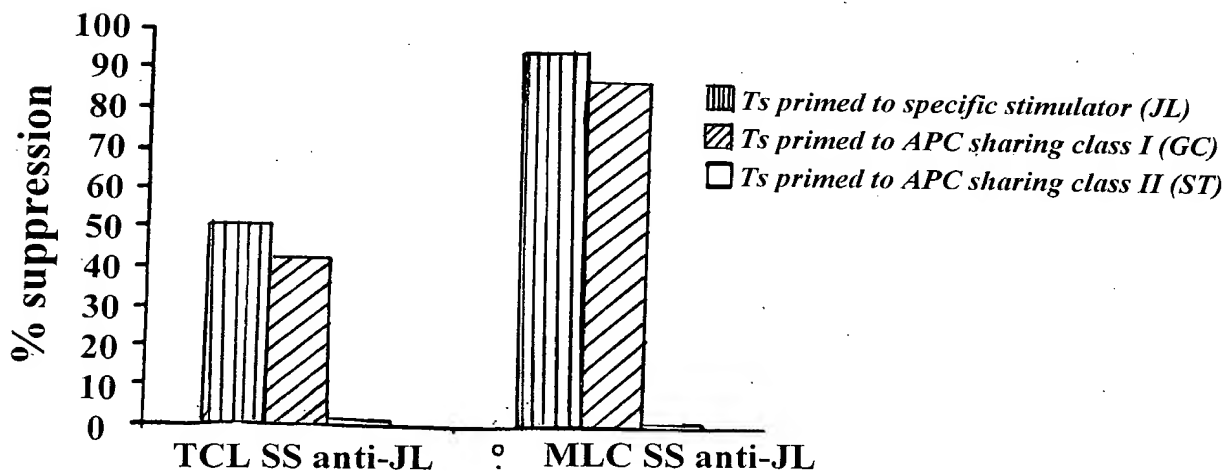


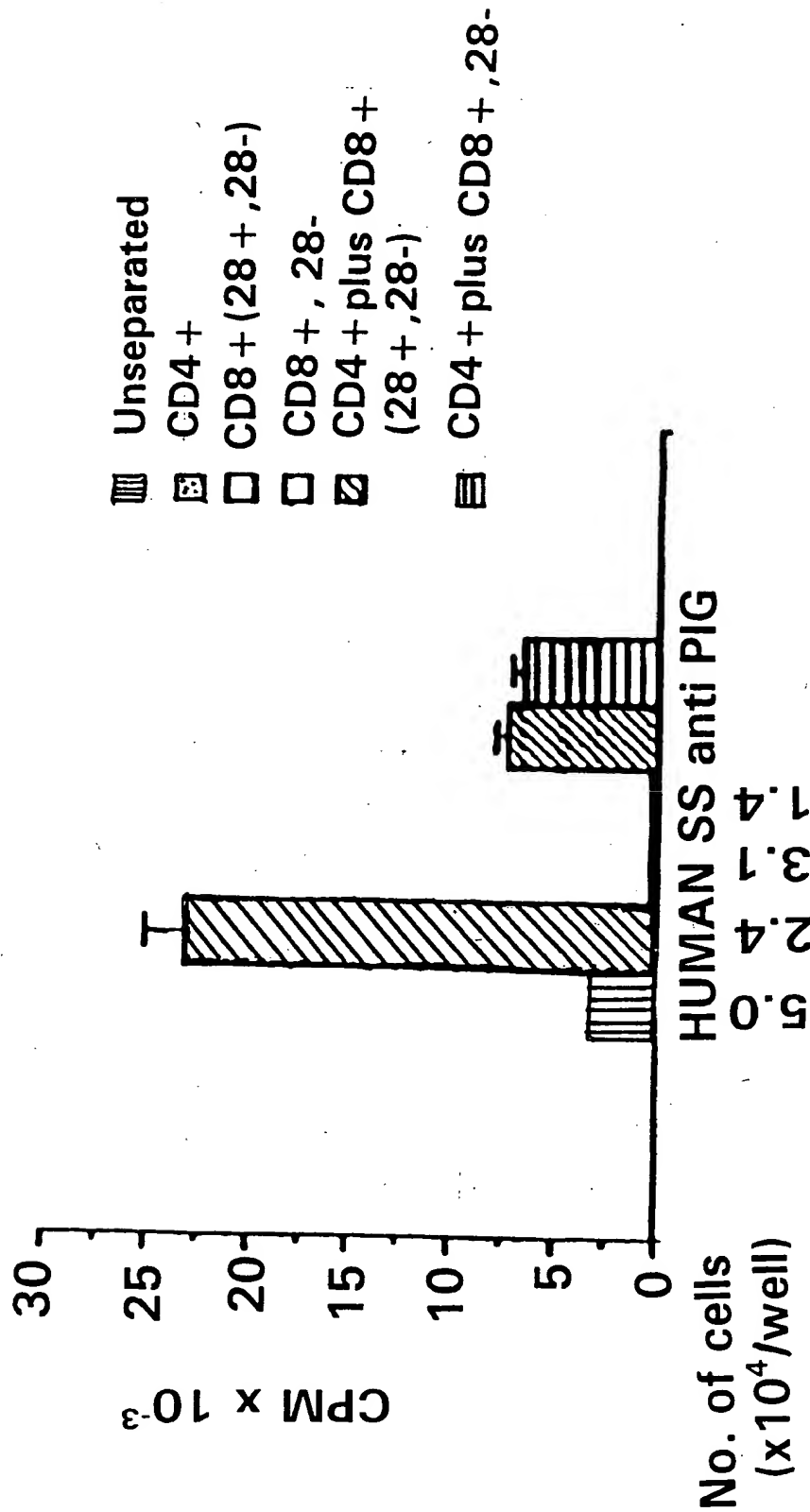
FIGURE 2B





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FIGURE 3





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FIGURE 4A

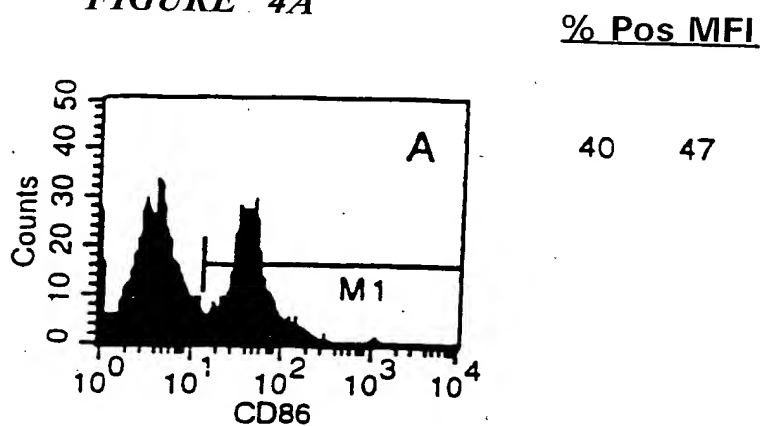


FIGURE 4B

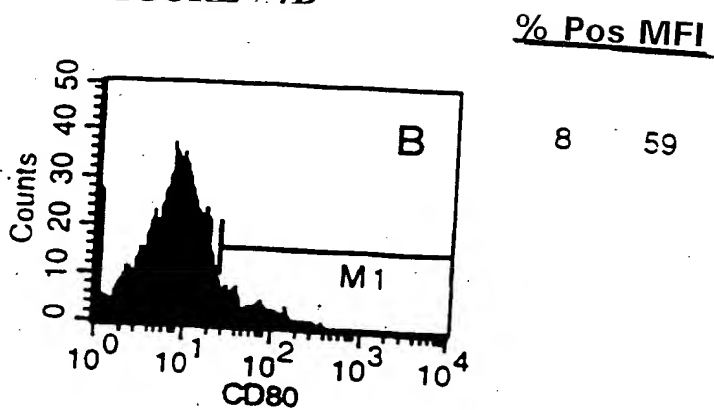


FIGURE 4C

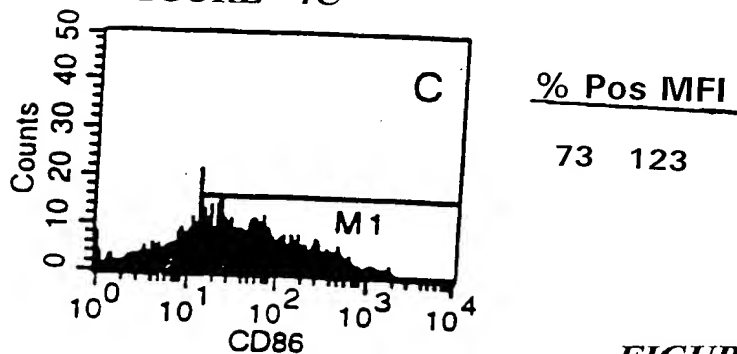
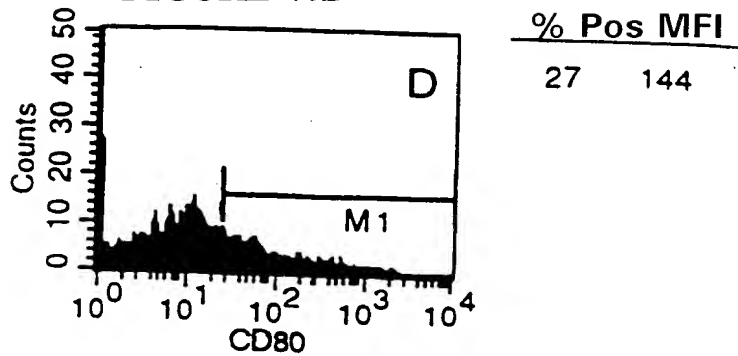
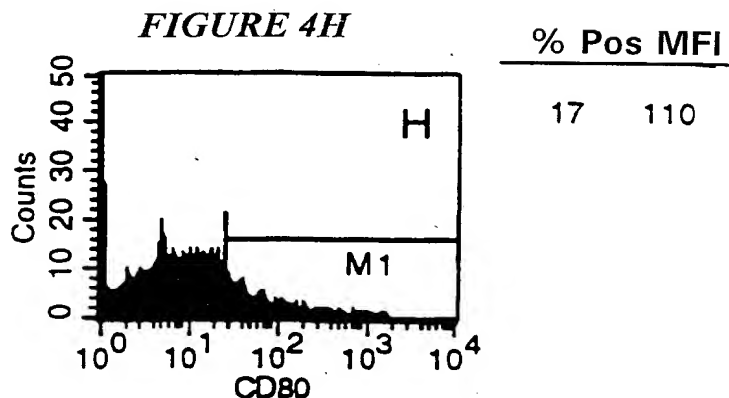
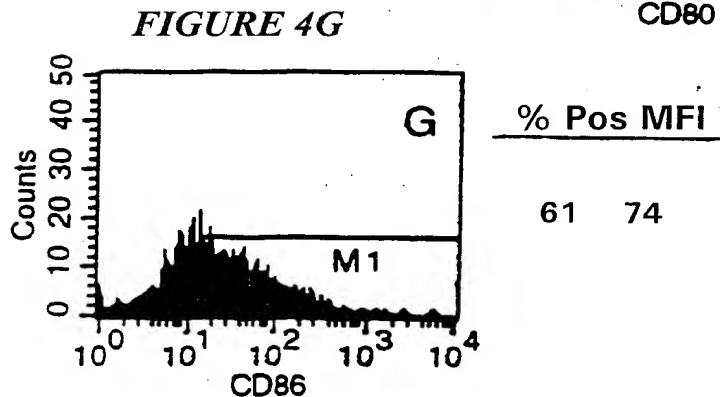
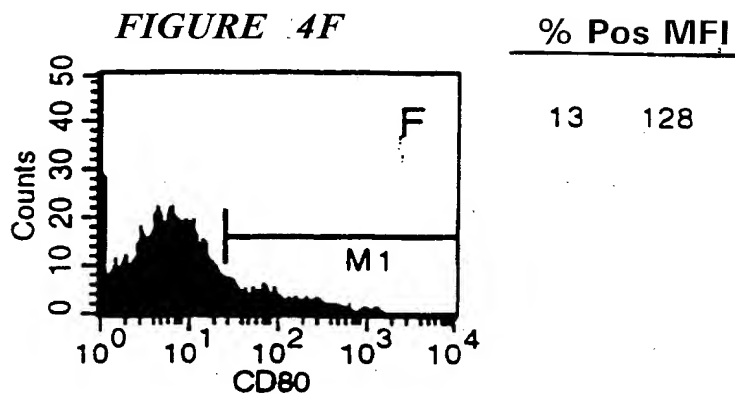
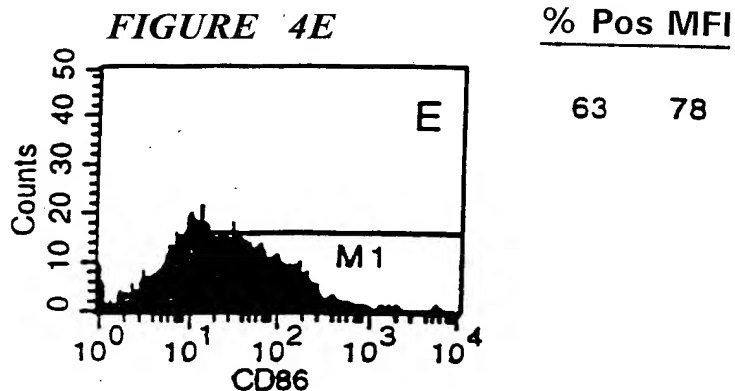


FIGURE 4D





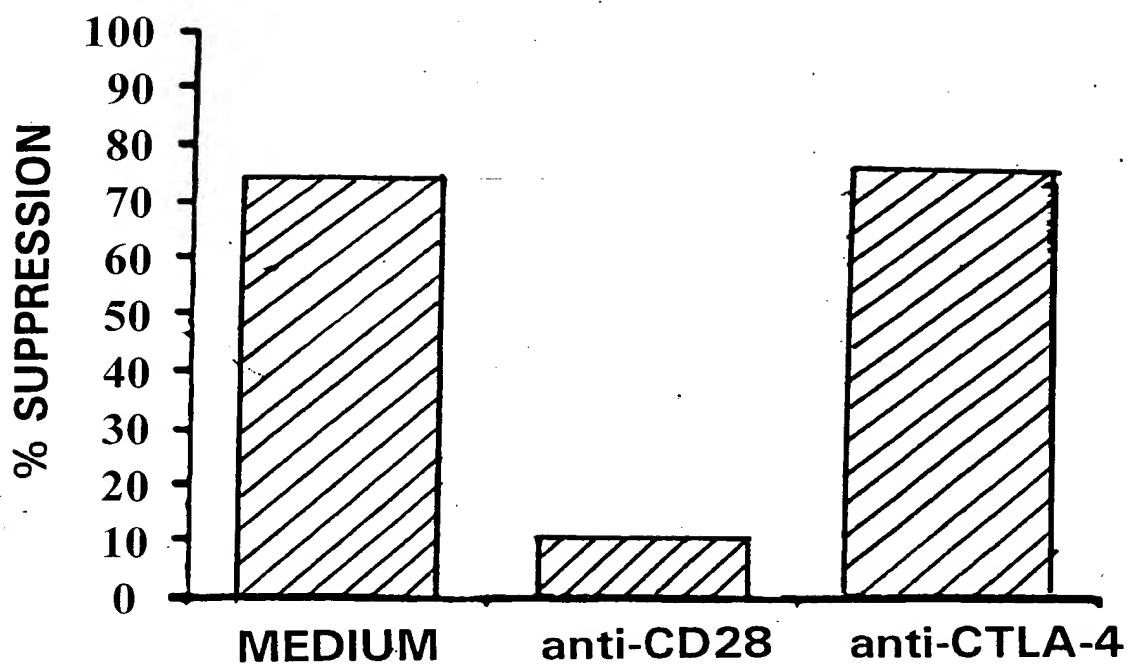
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**FIGURE 5**

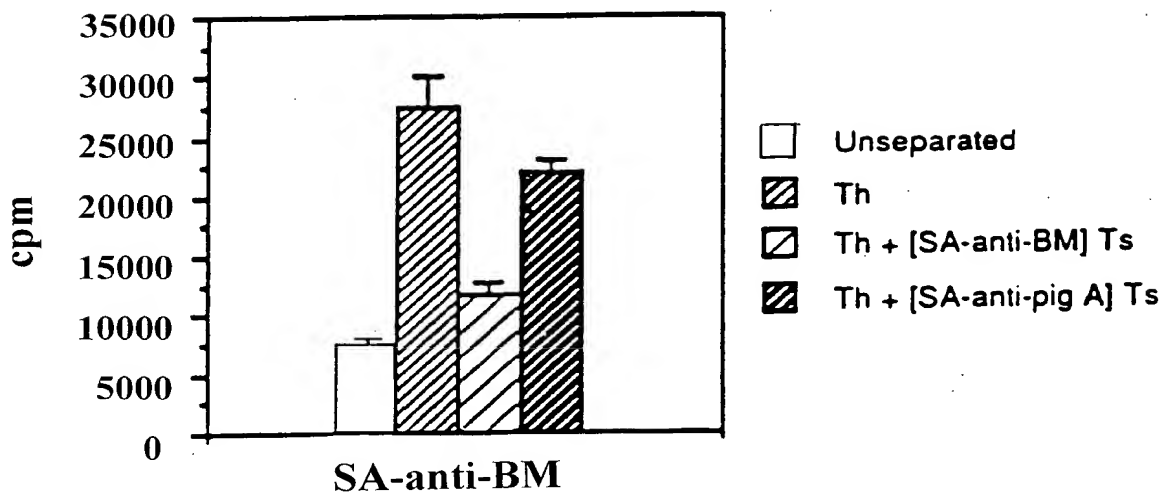




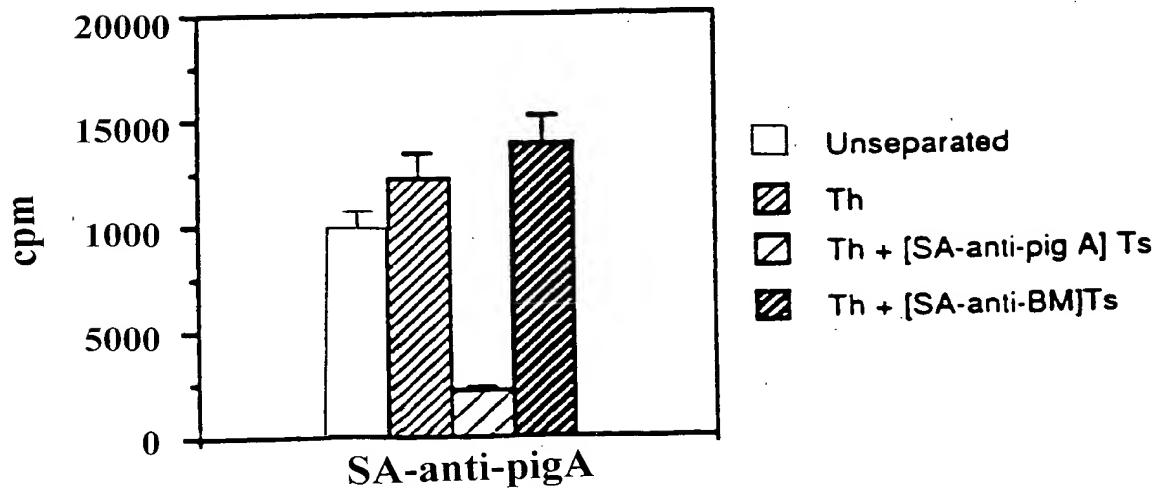


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**FIGURE 6A**



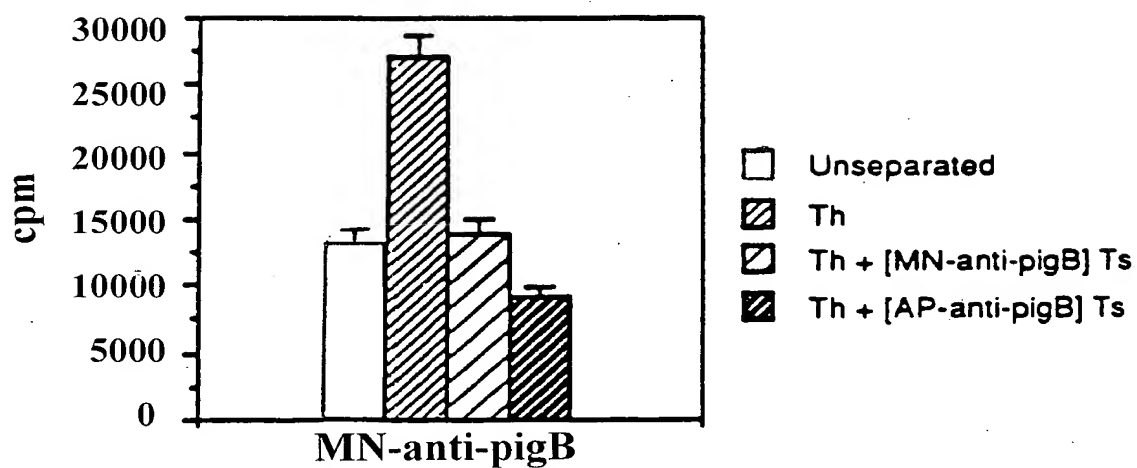
**FIGURE 6B**



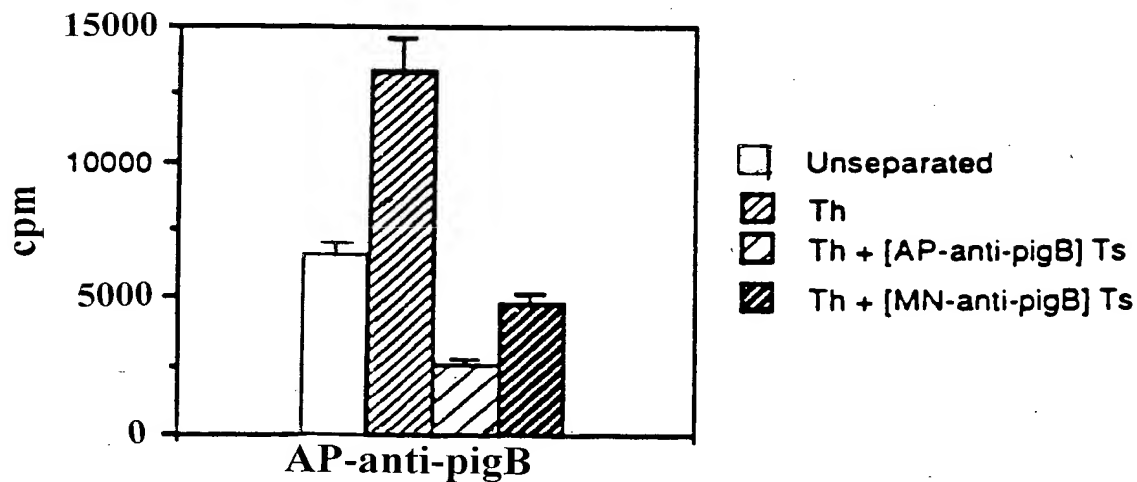


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**FIGURE 7A**



**FIGURE 7B**





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FIGURE 8A

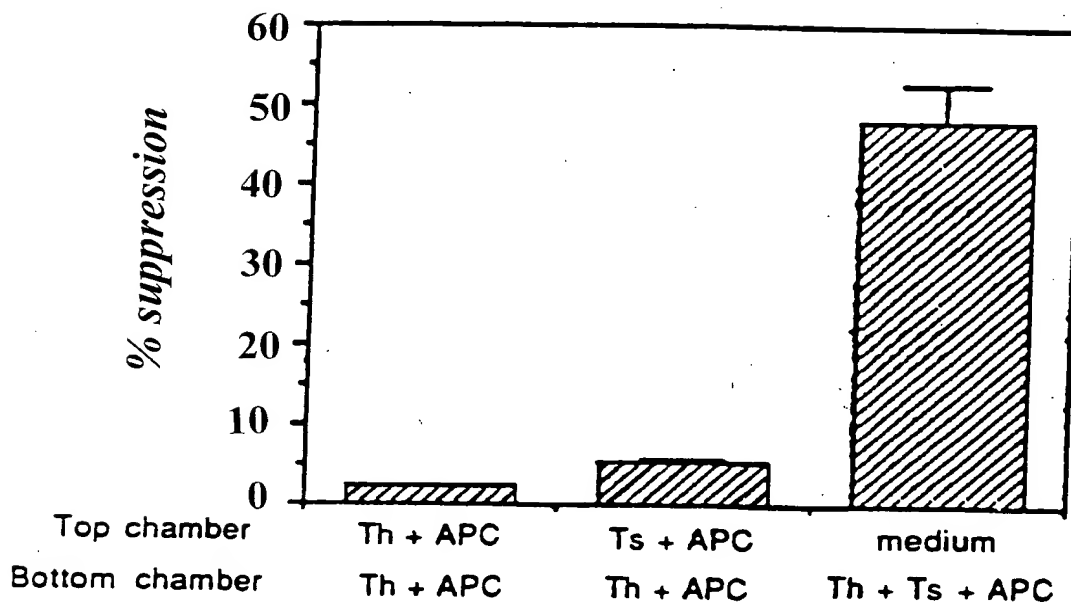
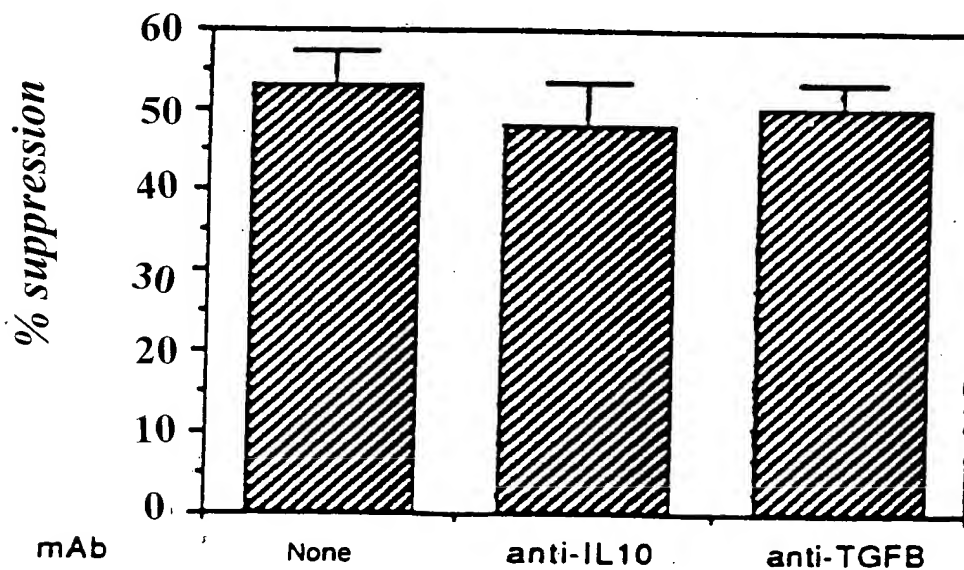


FIGURE 8B





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FIGURE 9A

FIGURE 9B

T helper cells

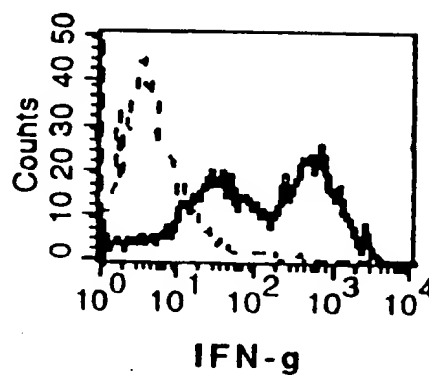
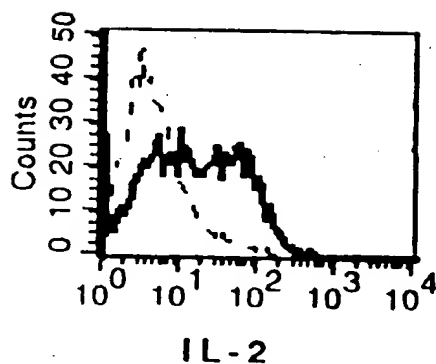
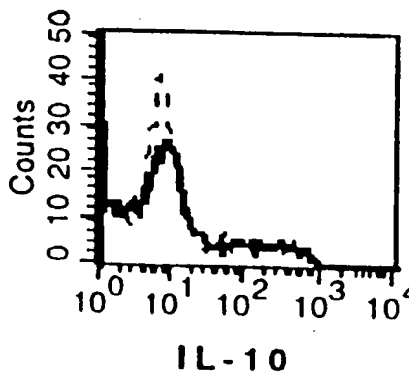
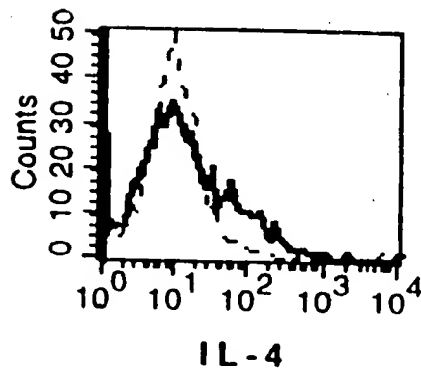


FIGURE 9C

FIGURE 9D



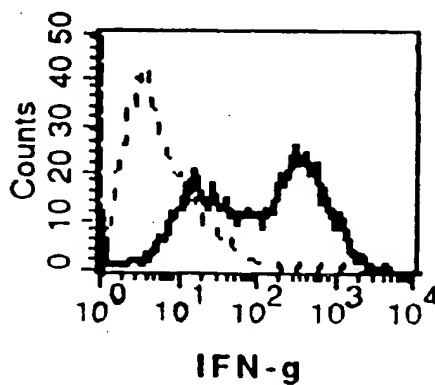
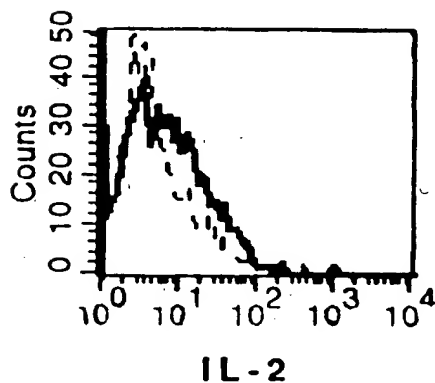


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**FIGURE 9E**

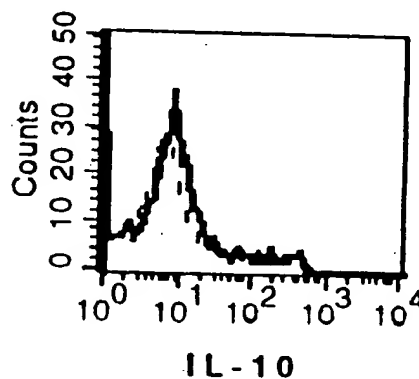
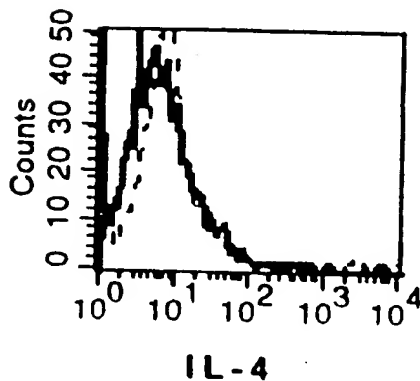
**FIGURE 9F**

**T suppressor cells**



**FIGURE 9G**

**FIGURE 9H**





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FIGURE 10A

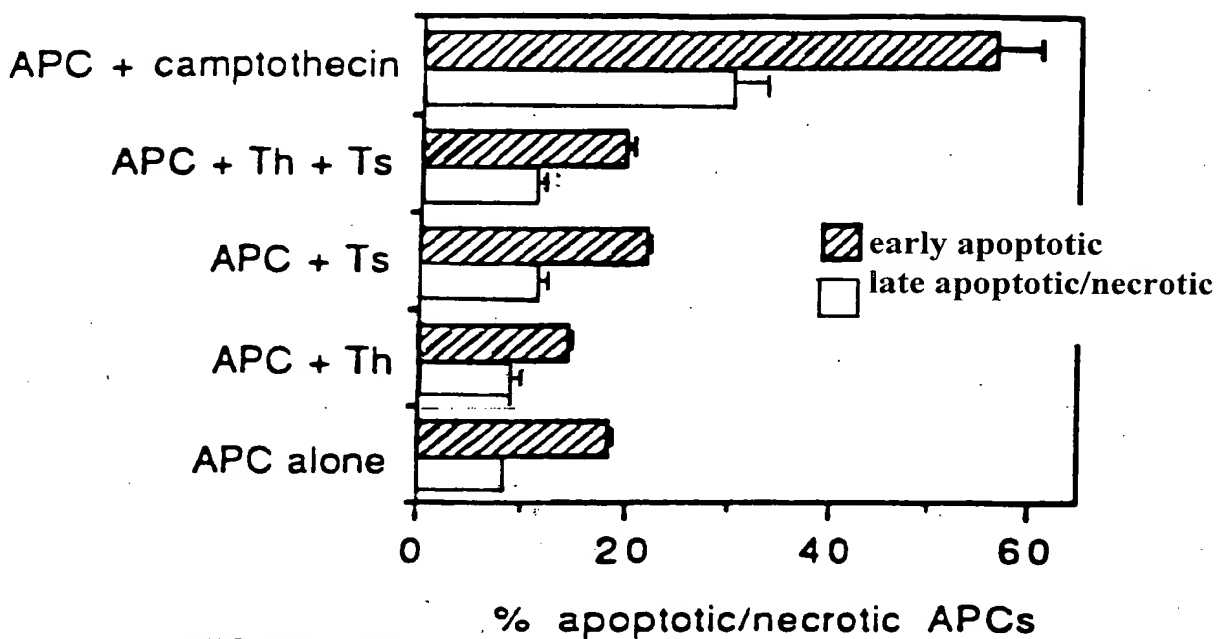
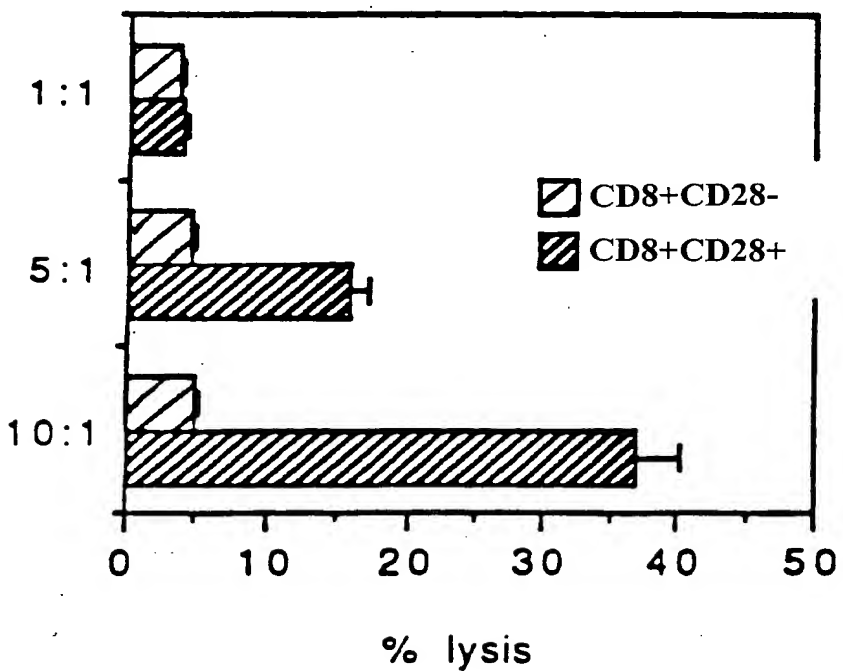


FIGURE 10B

Effector/  
Target





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FIGURE 10C

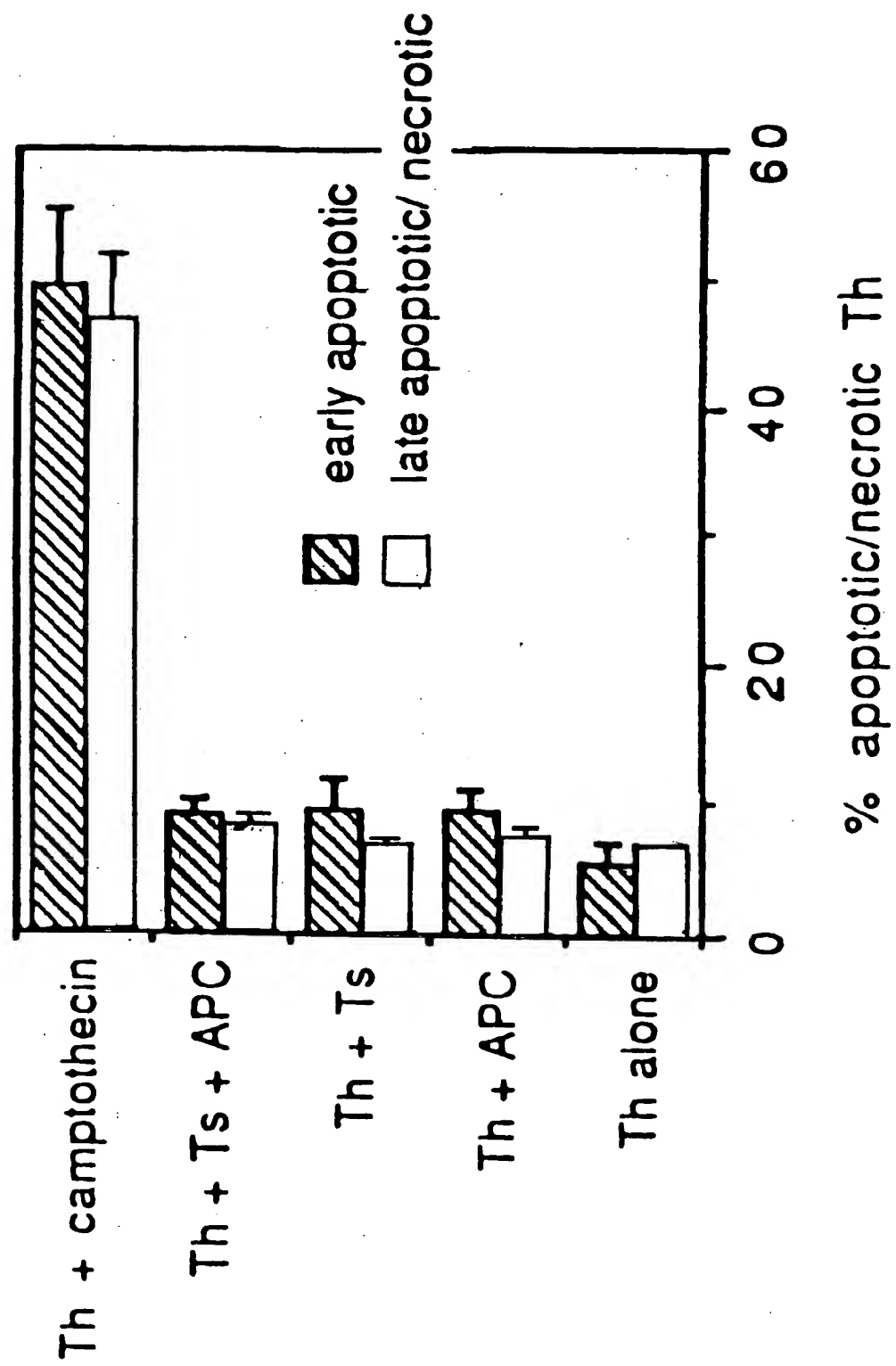




FIGURE 11A

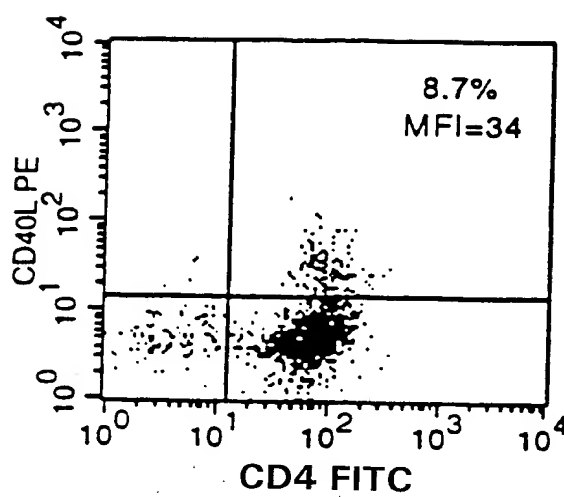


FIGURE 11B

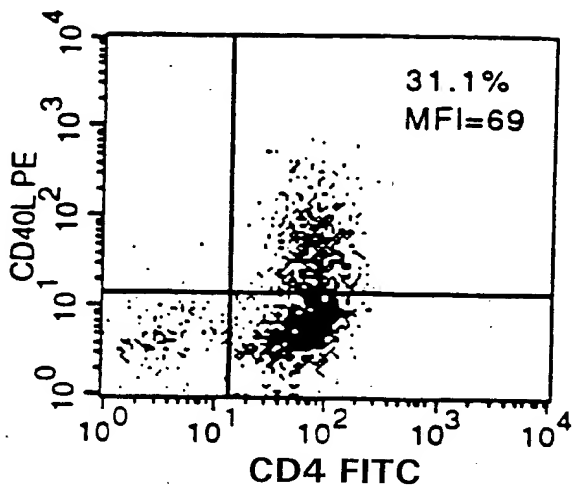


FIGURE 11C

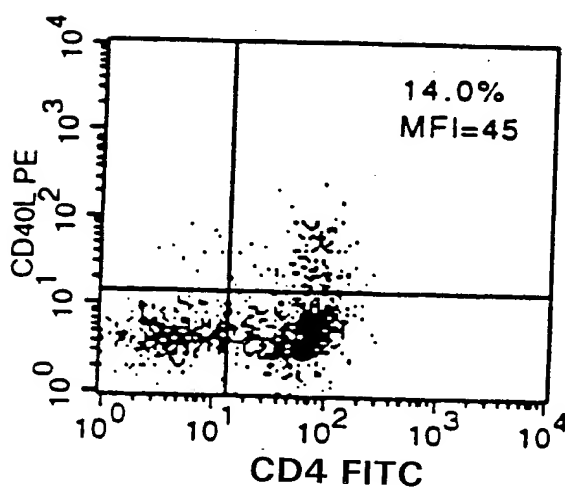
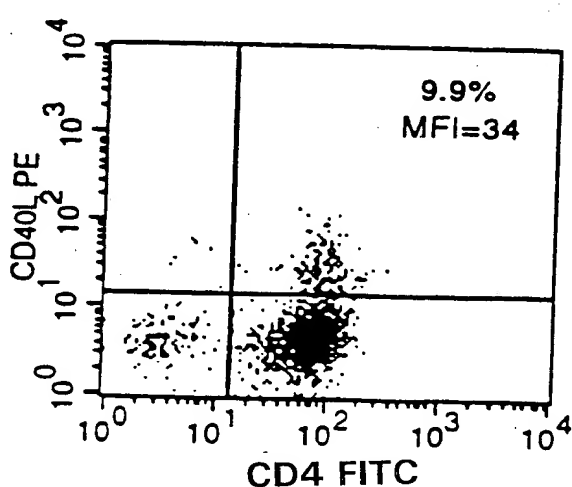


FIGURE 11D

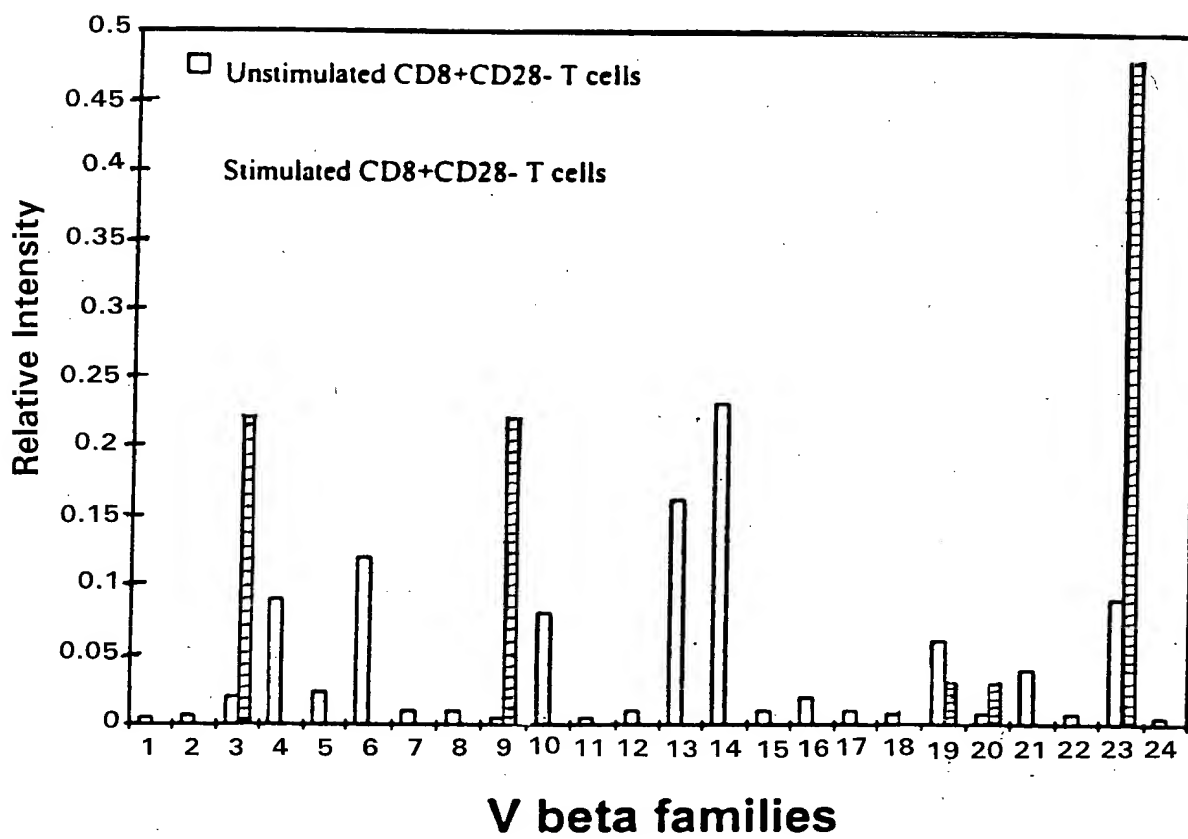






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FIGURE 12





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FIGURE 13A

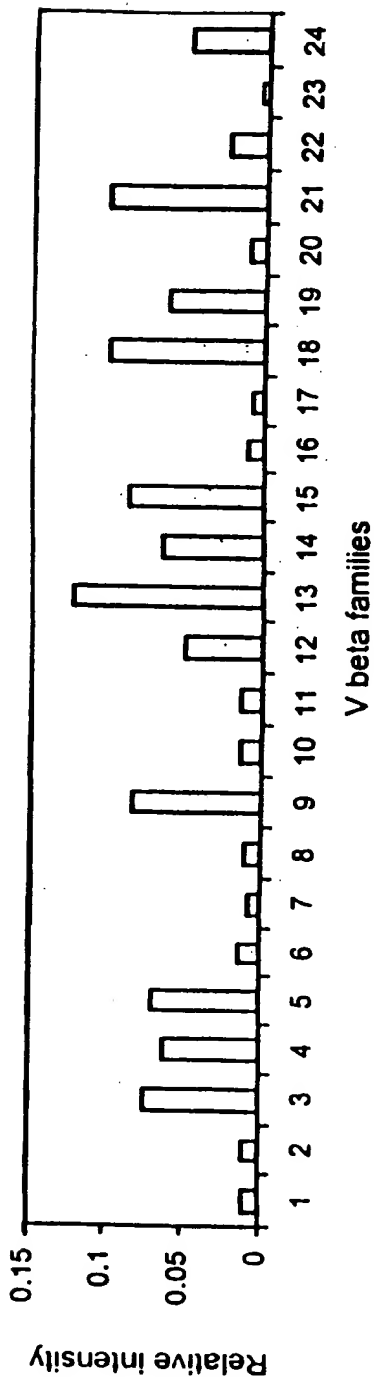
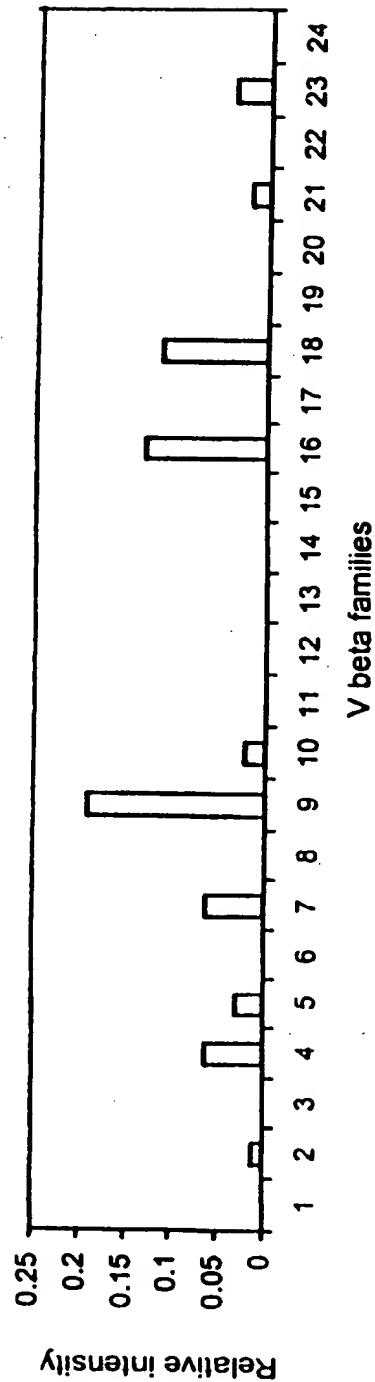


FIGURE 13B





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FIGURE 13C

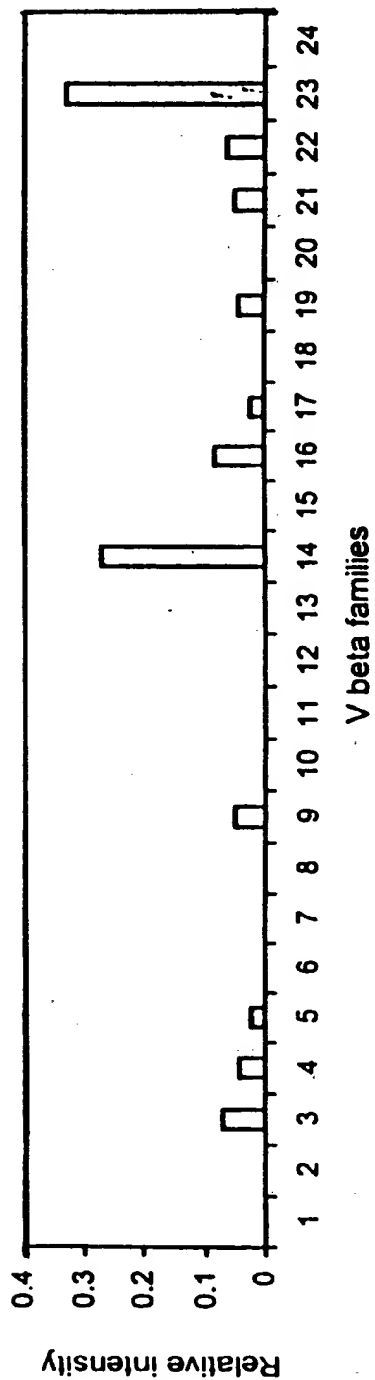
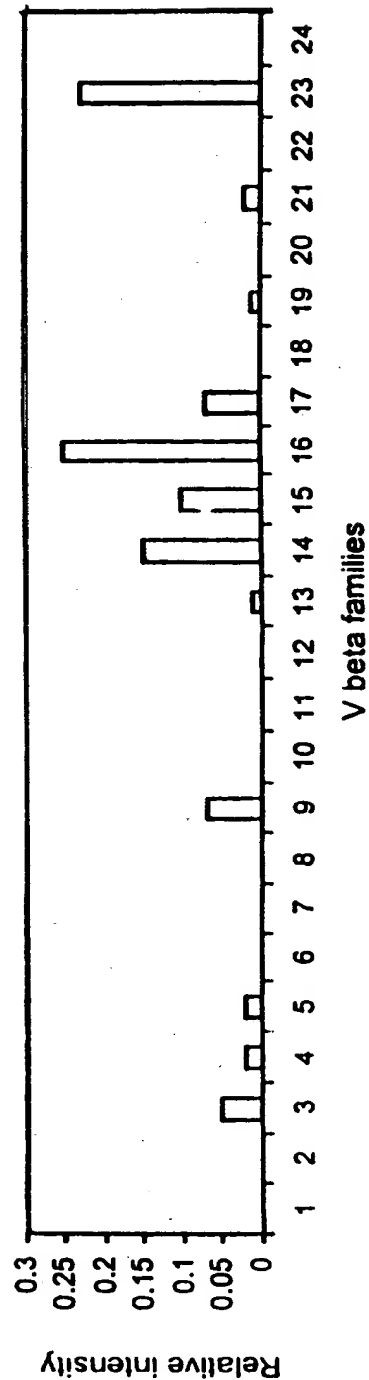


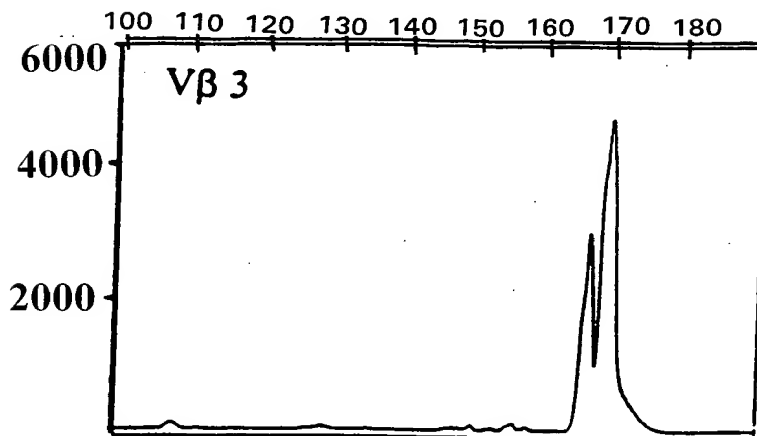
FIGURE 13D



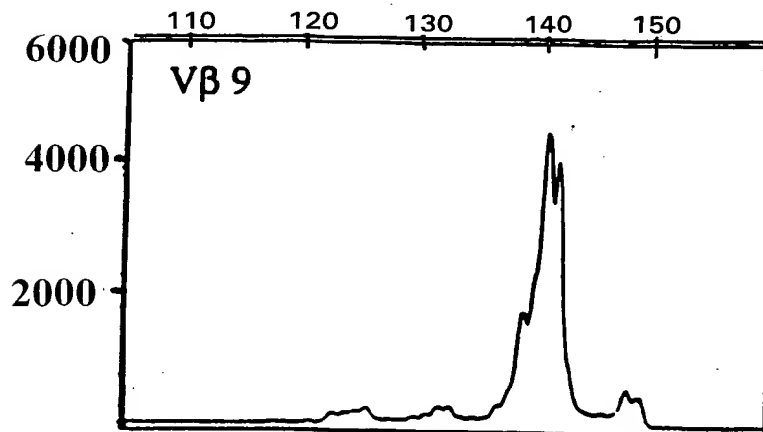


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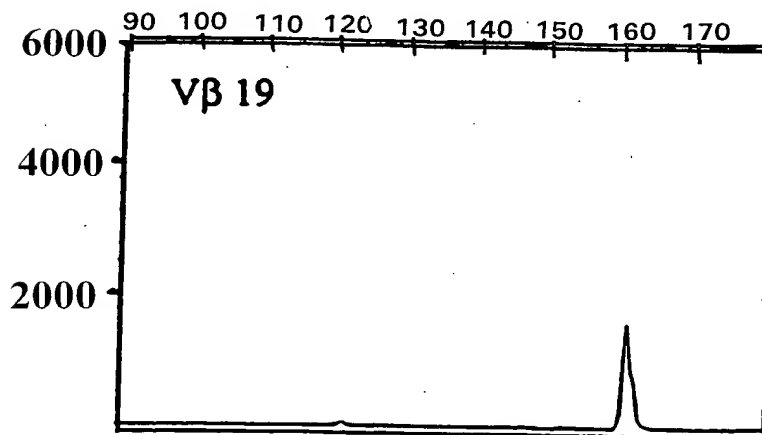
**FIGURE 14A**



**FIGURE 14B**



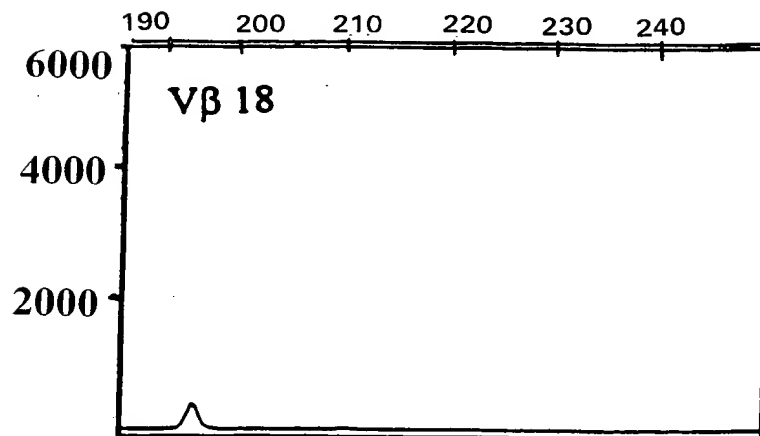
**FIGURE 14C**



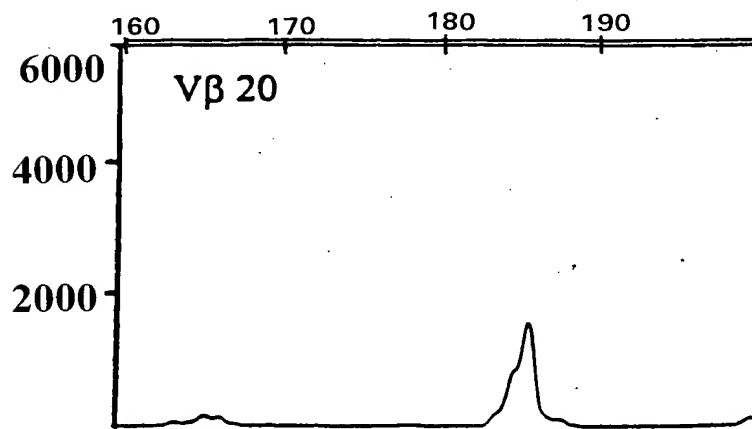


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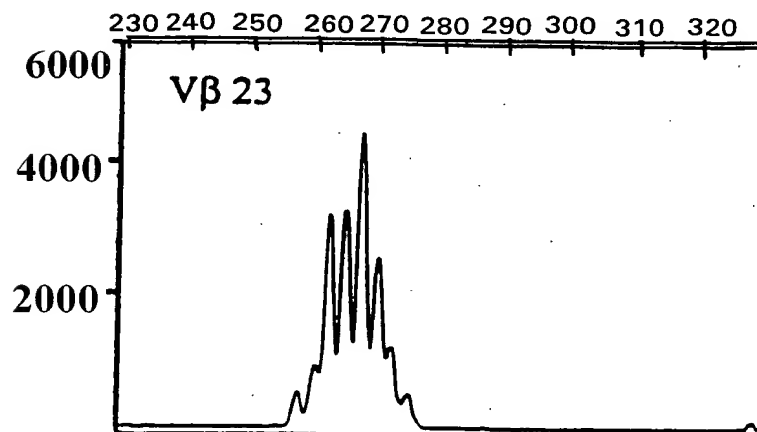
**FIGURE 14D**



**FIGURE 14E**



**FIGURE 14F**





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FIGURE 15A

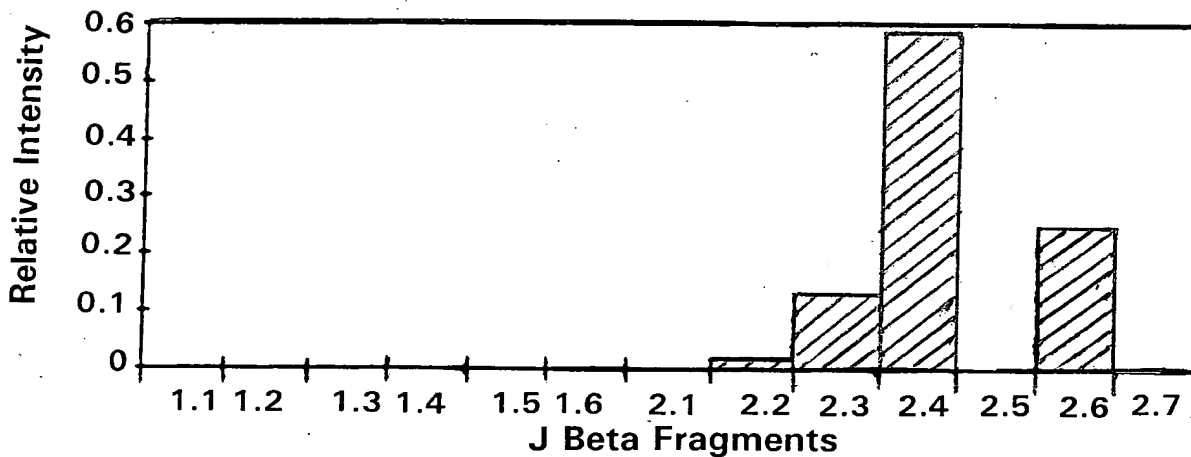


FIGURE 15B

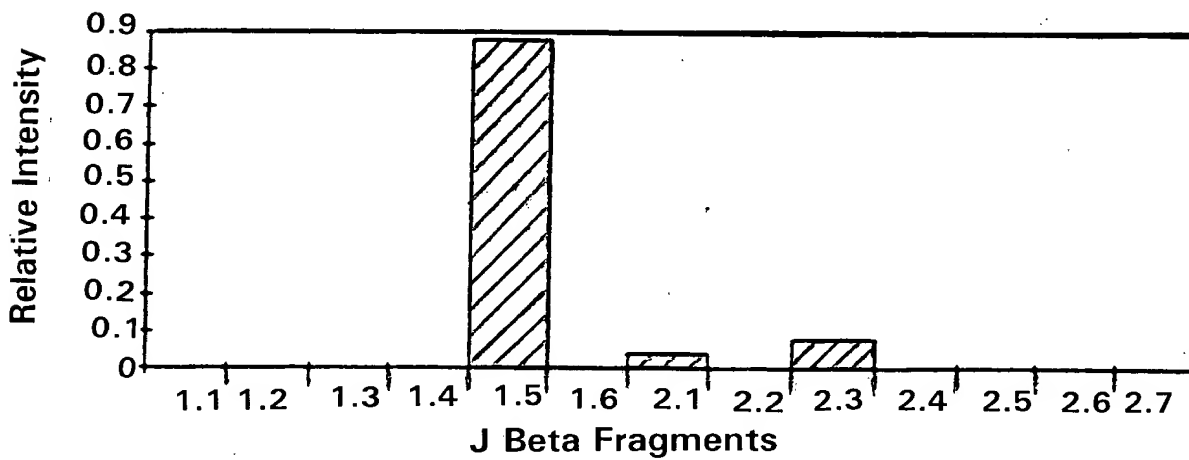
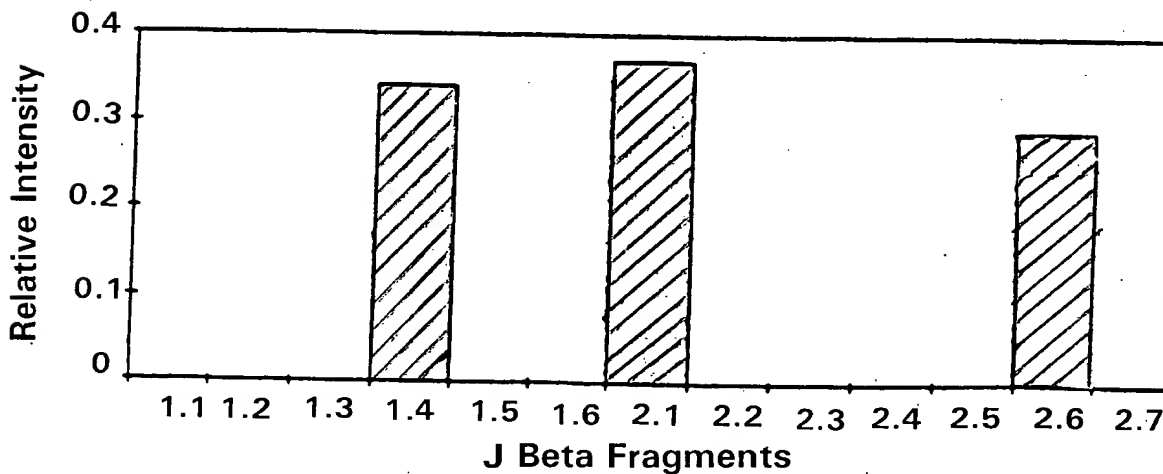


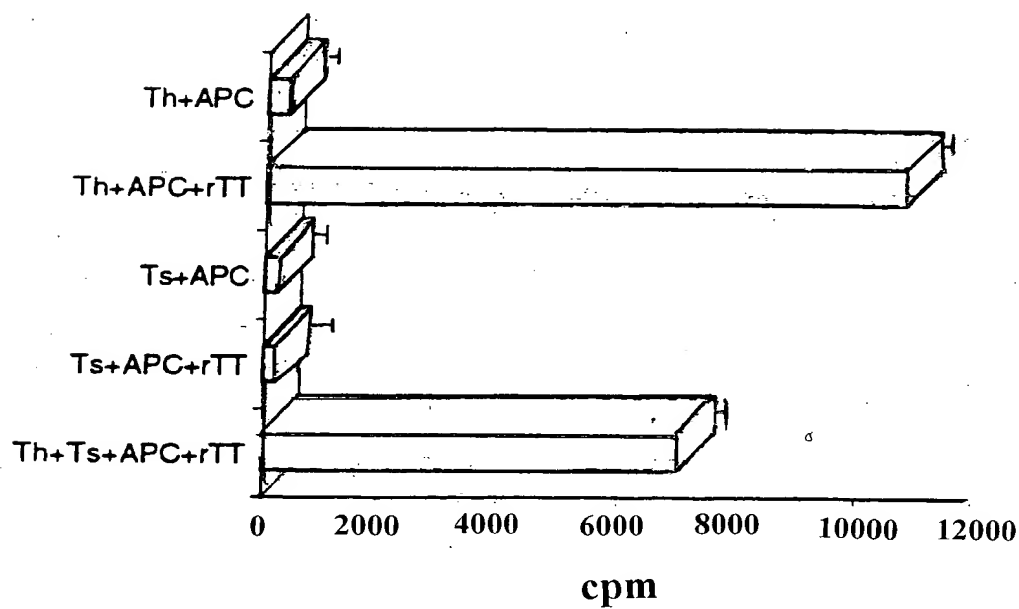
FIGURE 15C





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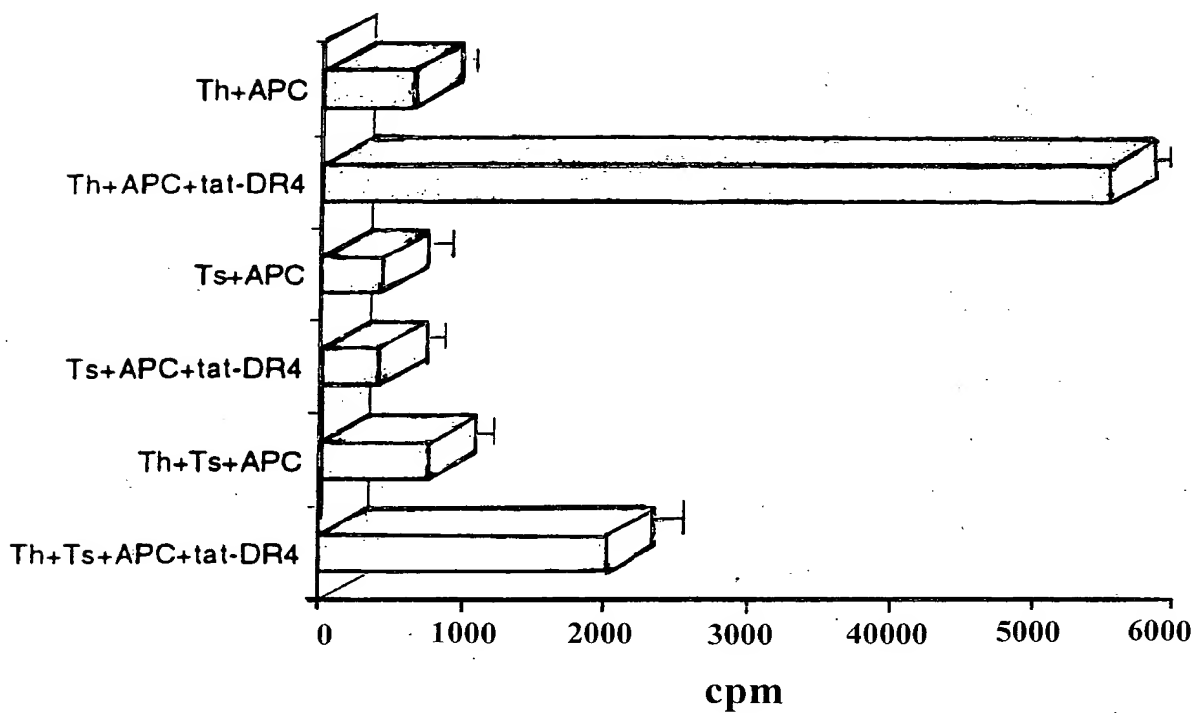
**FIGURE 16**





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FIGURE 17

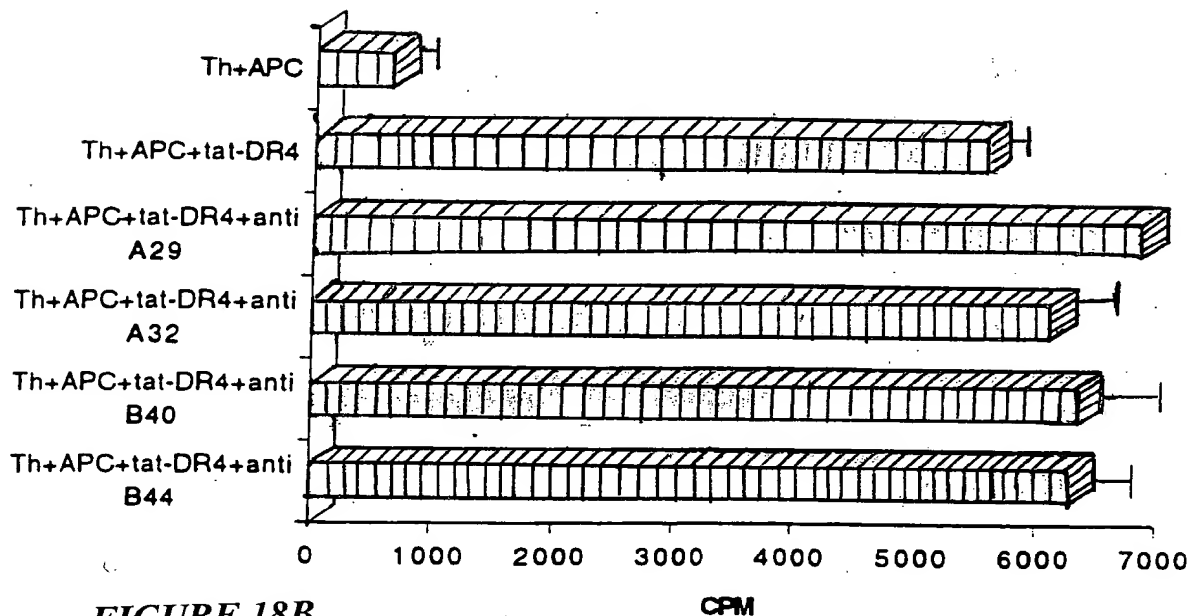




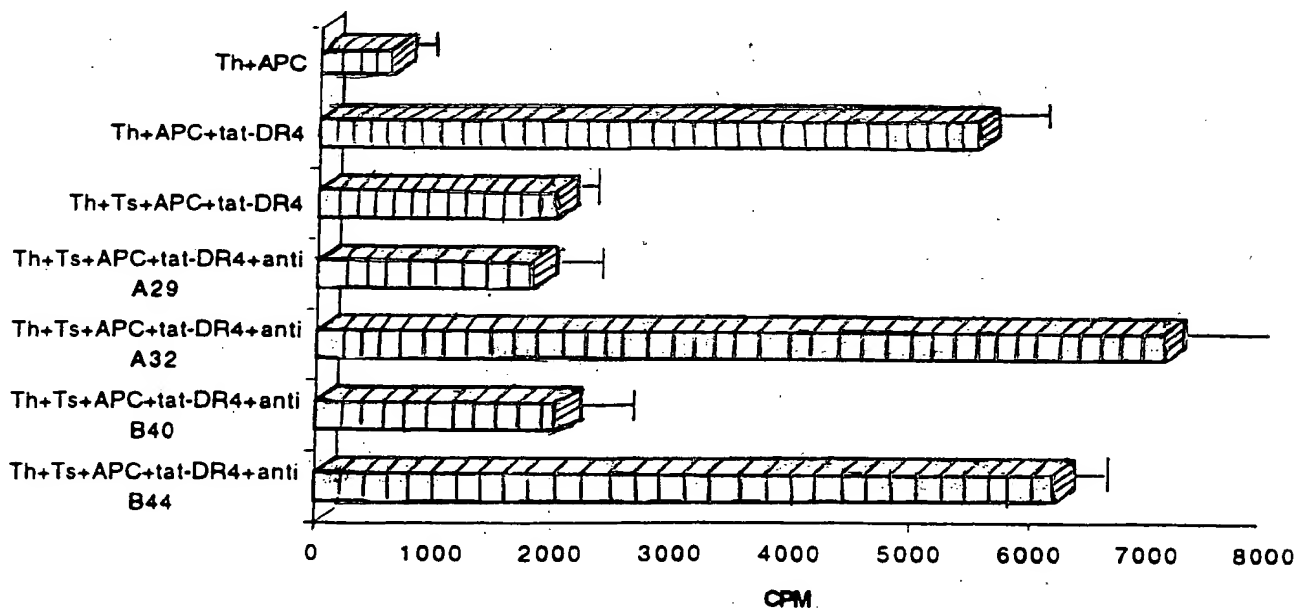


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**FIGURE 18A**



**FIGURE 18B**





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FIGURE 19A-1

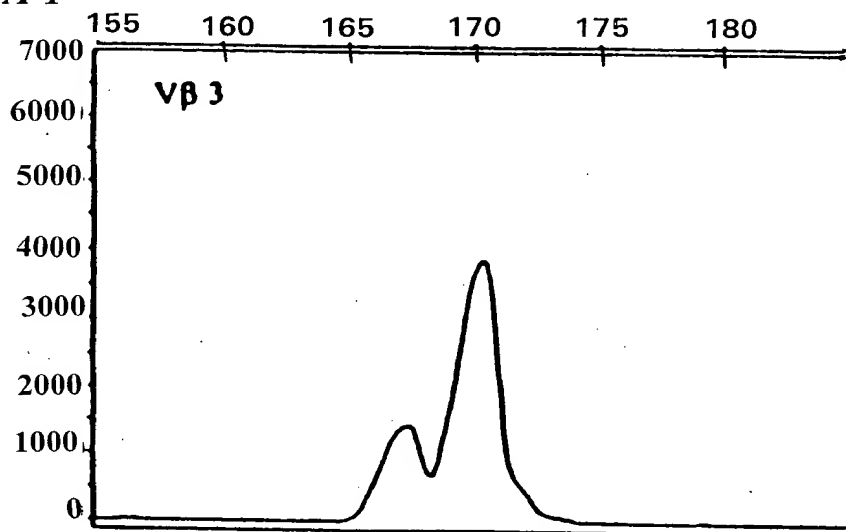


FIGURE 19A-2

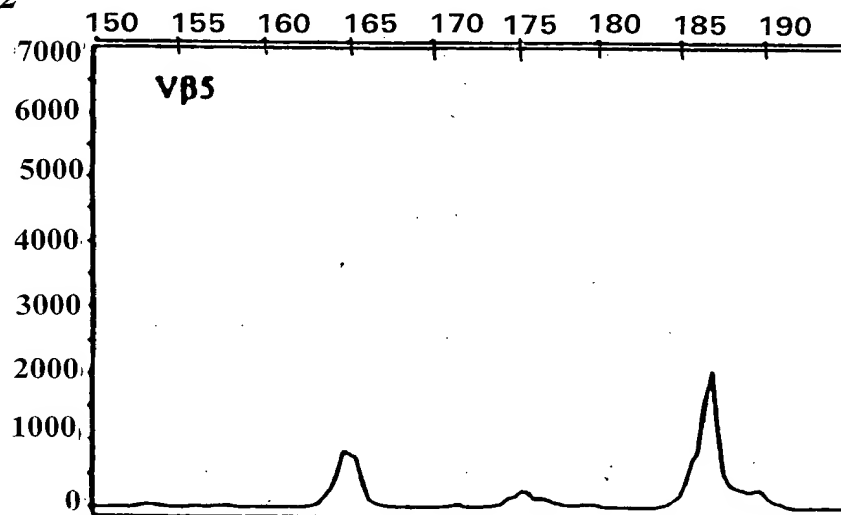
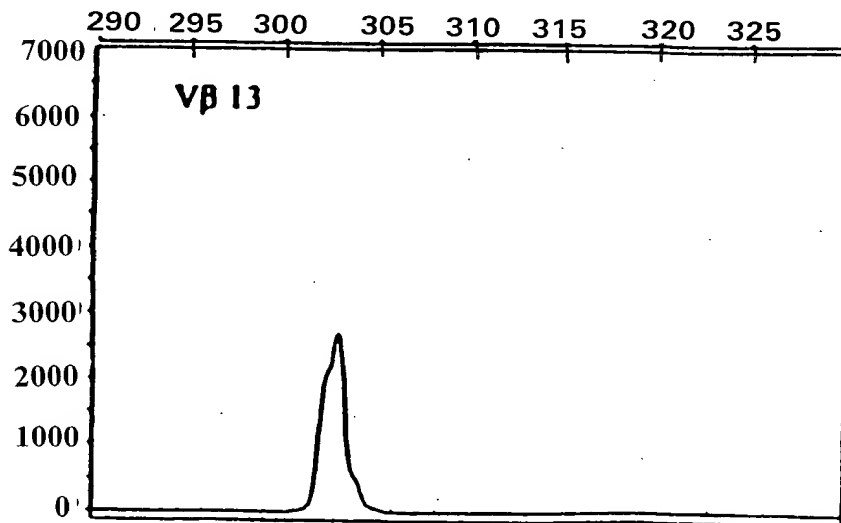


FIGURE 19A-3





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FIGURE 19A-4

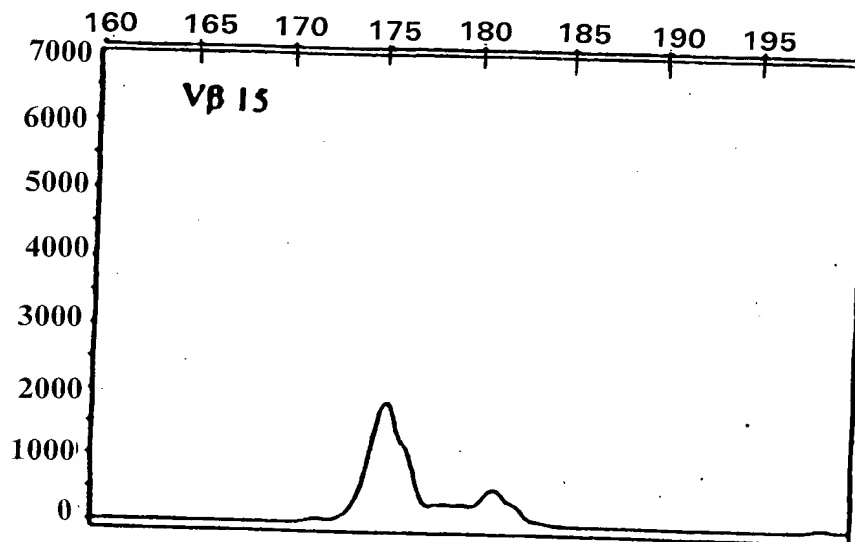
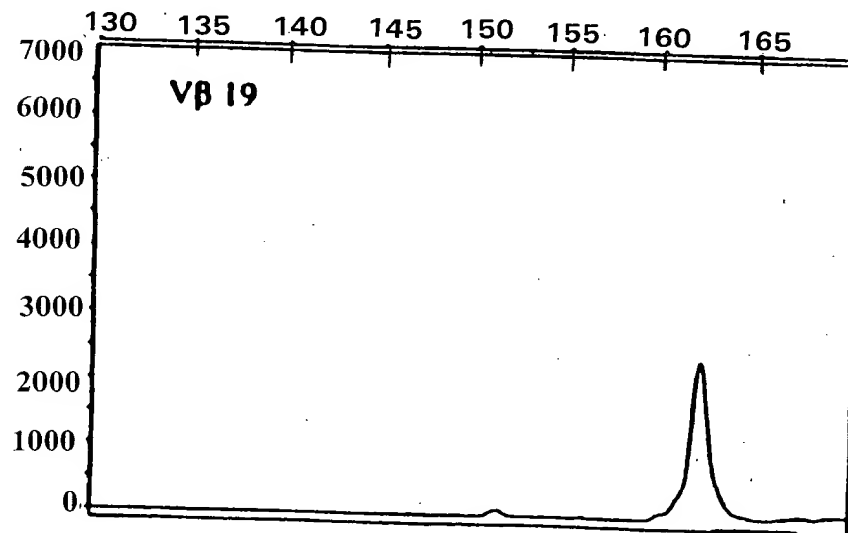


FIGURE 19A-5





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FIGURE 19B-1

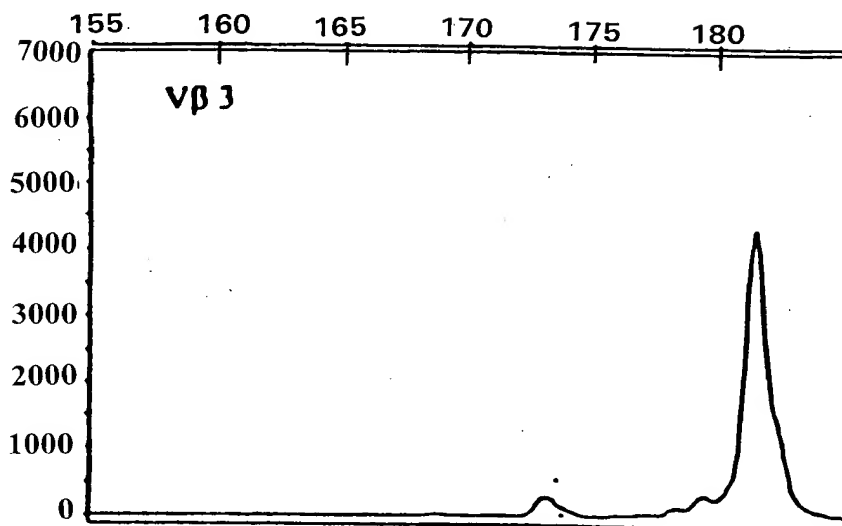


FIGURE 19B-2

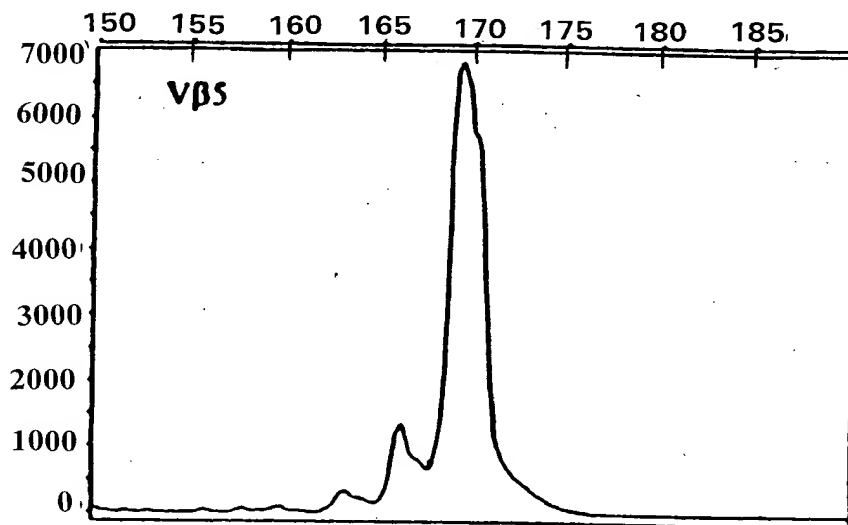
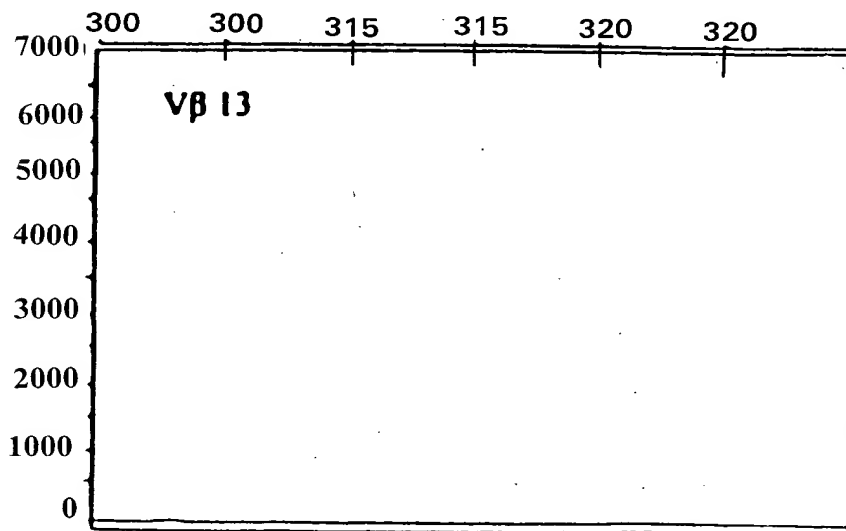


FIGURE 19B-3





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FIGURE 19B-4

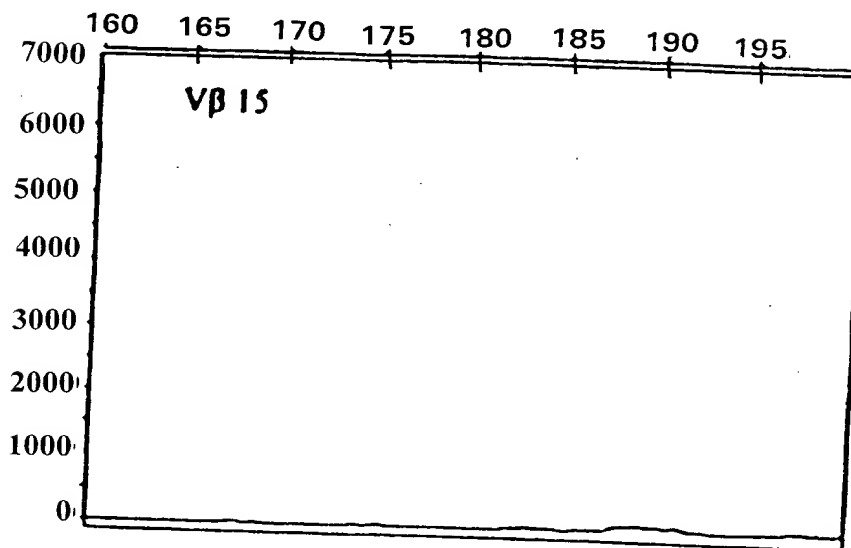
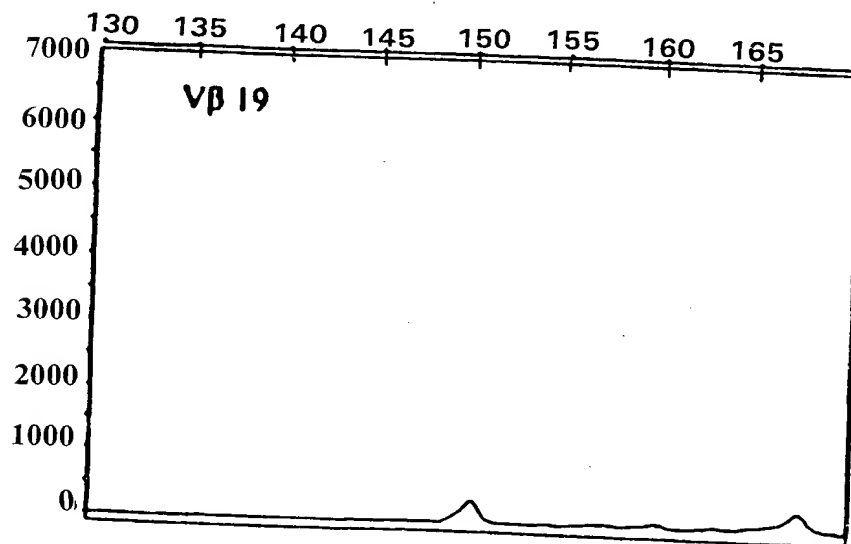


FIGURE 19B-5





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FIGURE 19C-1

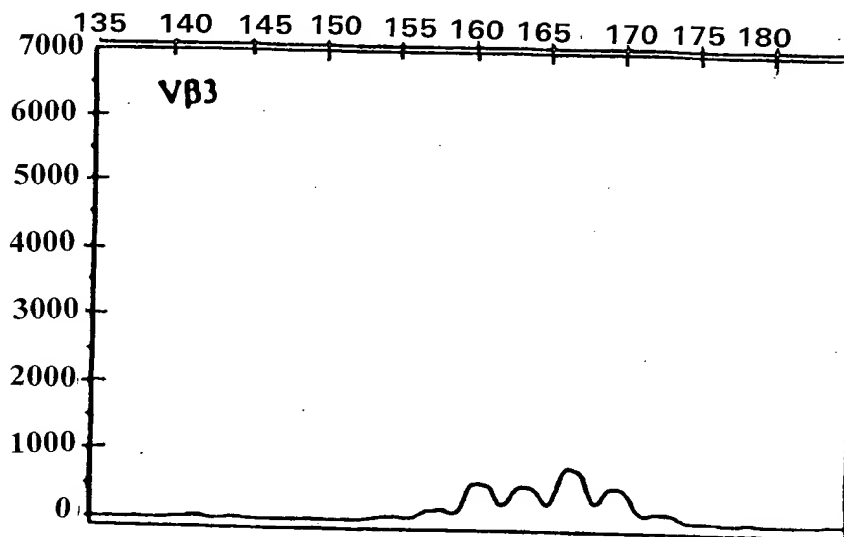


FIGURE 19C-2

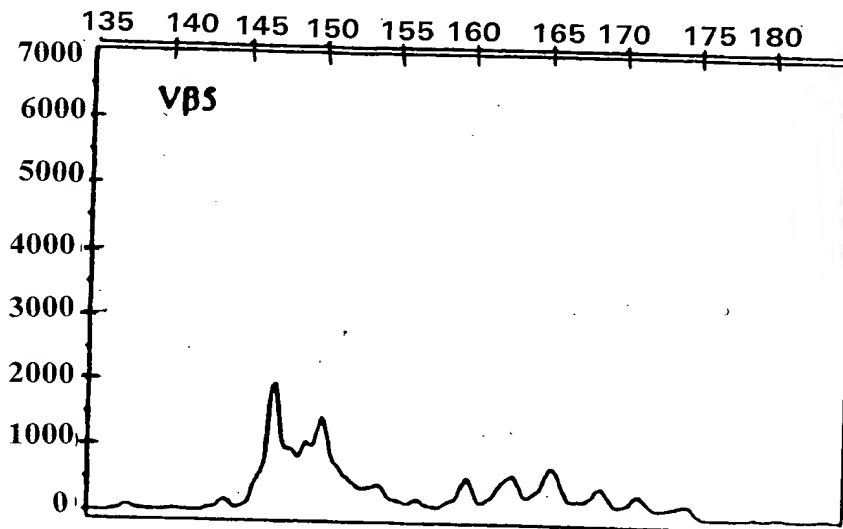
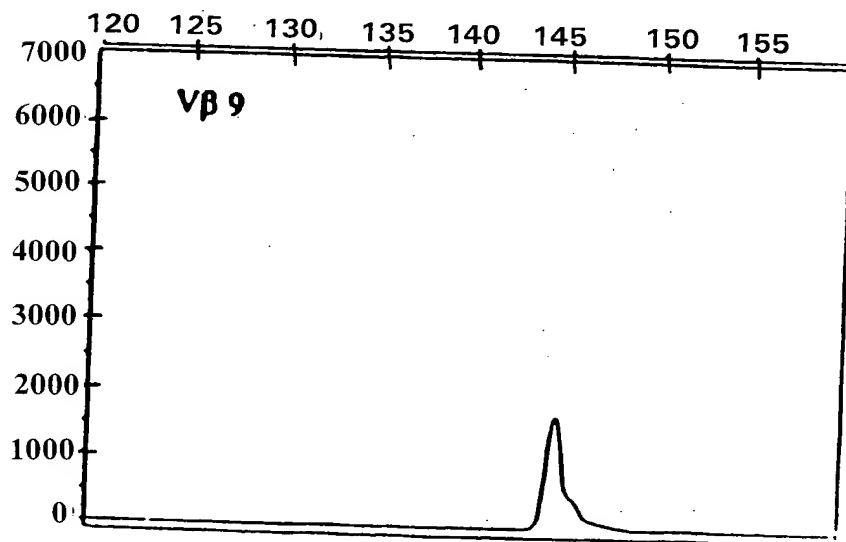


FIGURE 19C-3





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FIGURE 19C-4

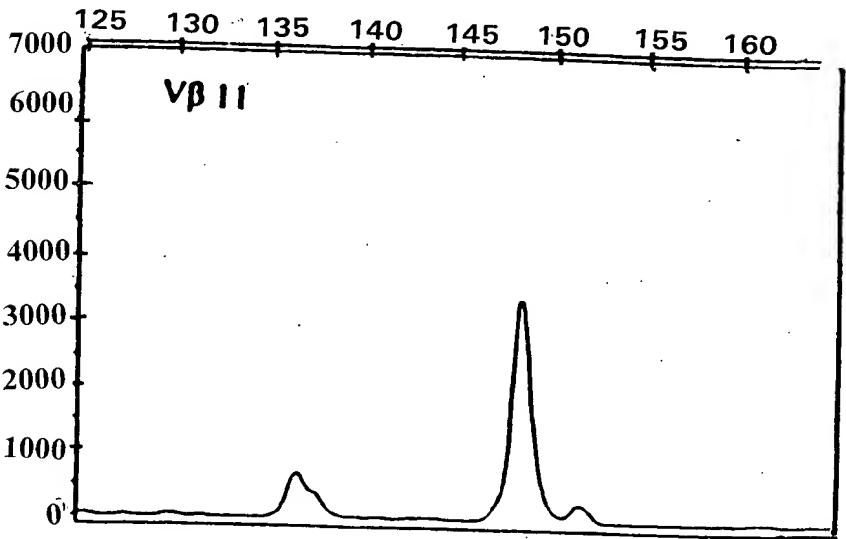
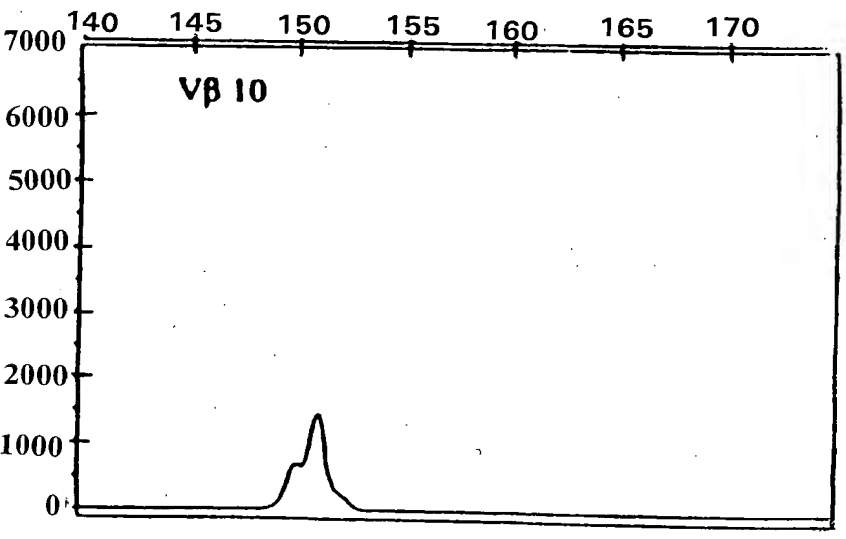


FIGURE 19C-5





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FIGURE 20A

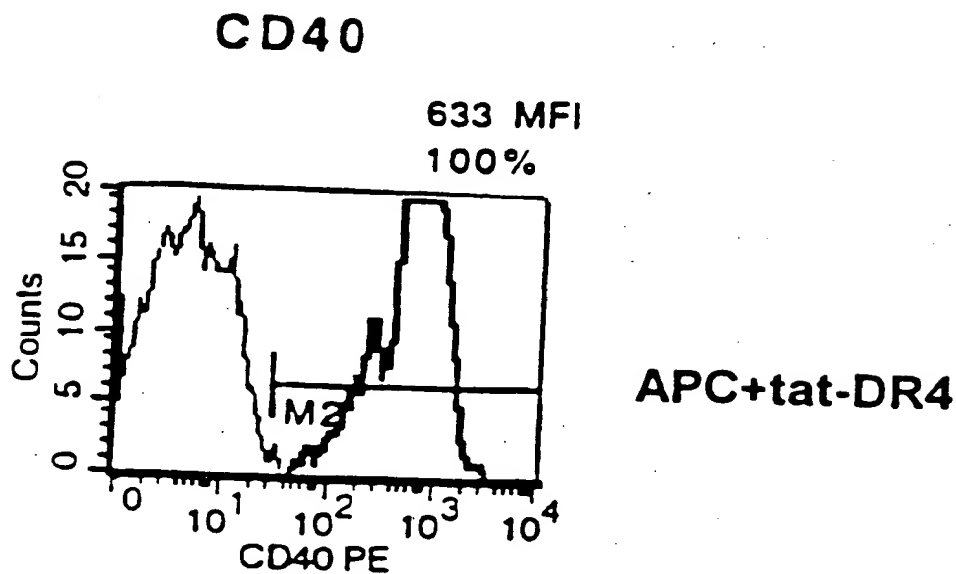
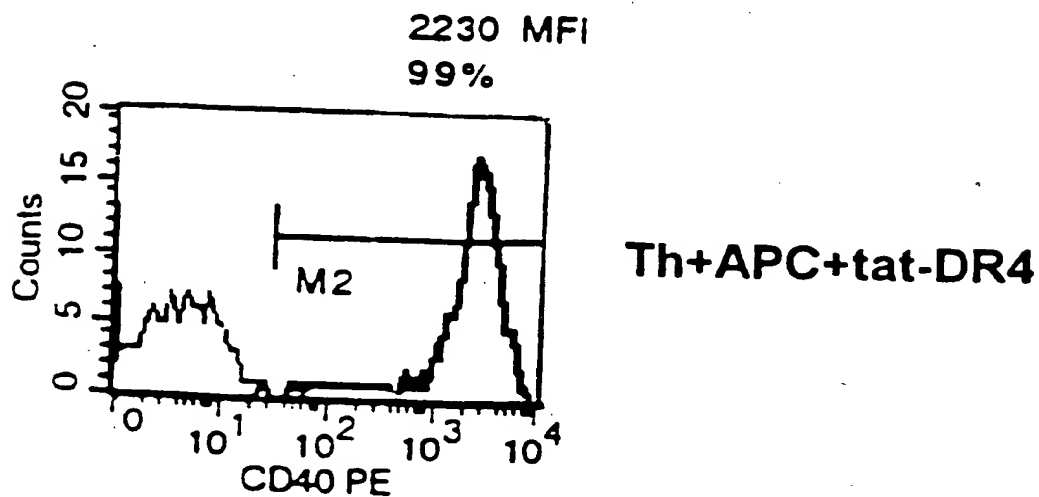


FIGURE 20B



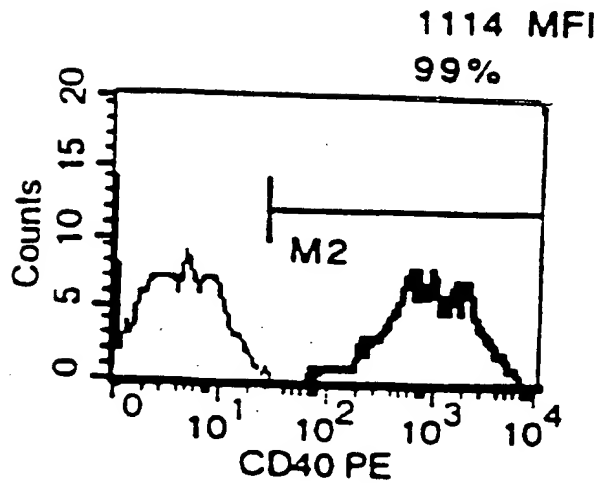




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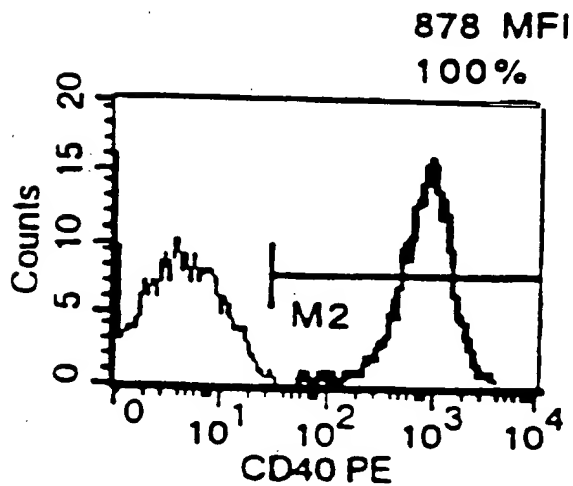
FIGURE 20C

CD40



Th+Ts+APC+tat-DR4

FIGURE 20D



Ts+APC+tat-DR4

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FIGURE 20E

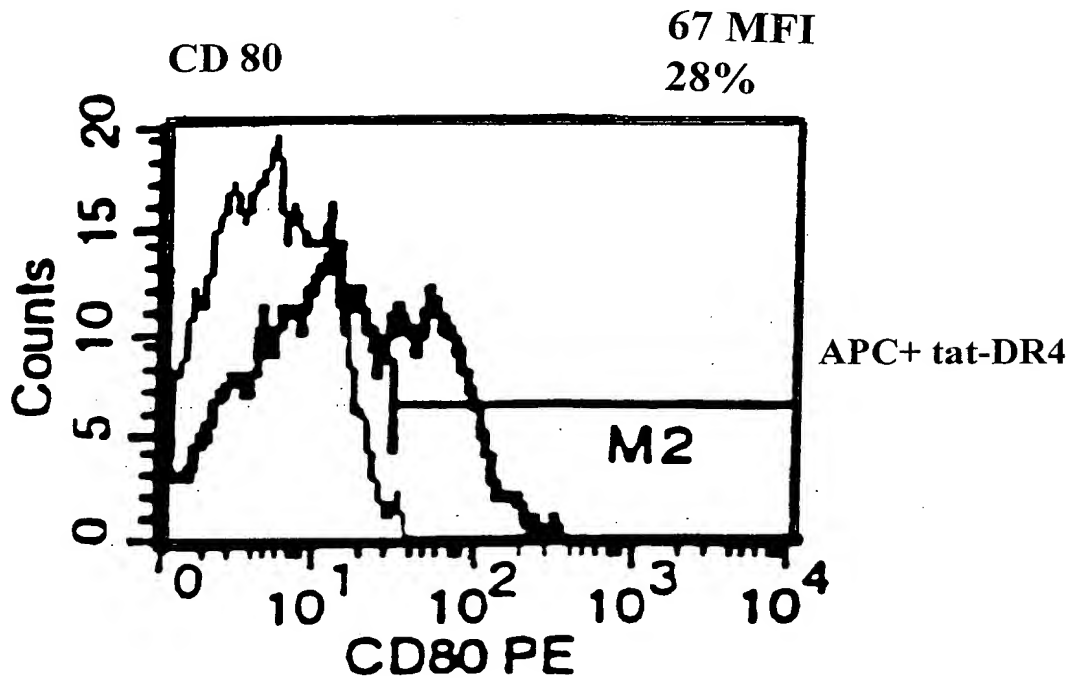
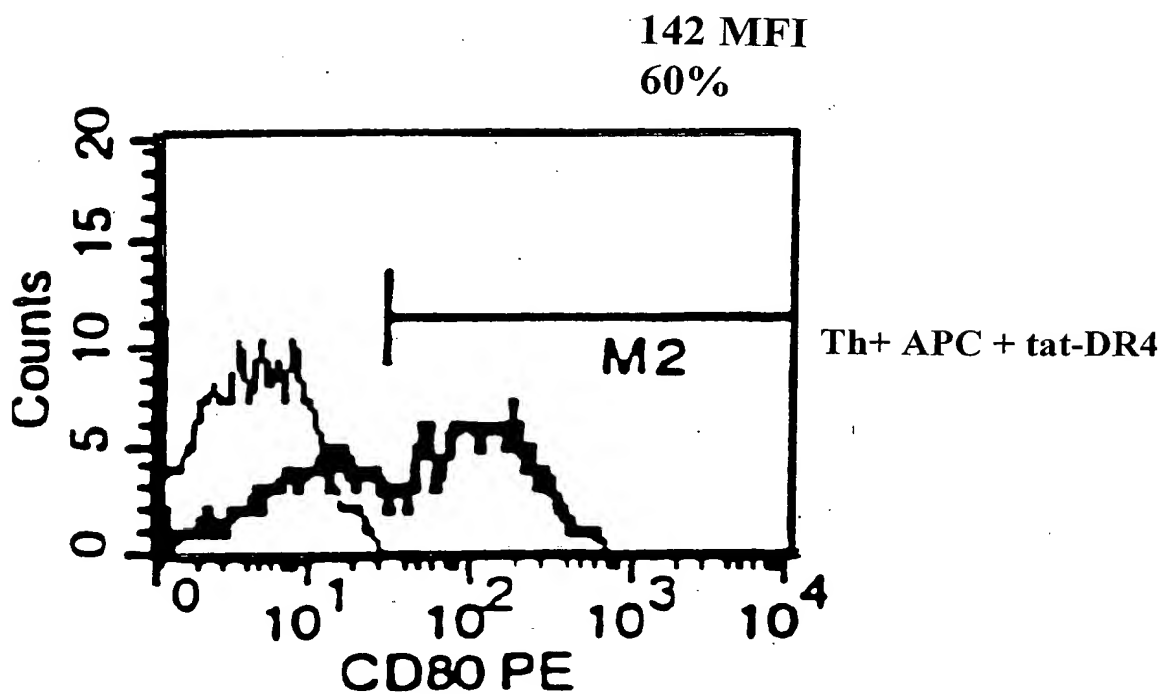


FIGURE 20F





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FIGURE 20G

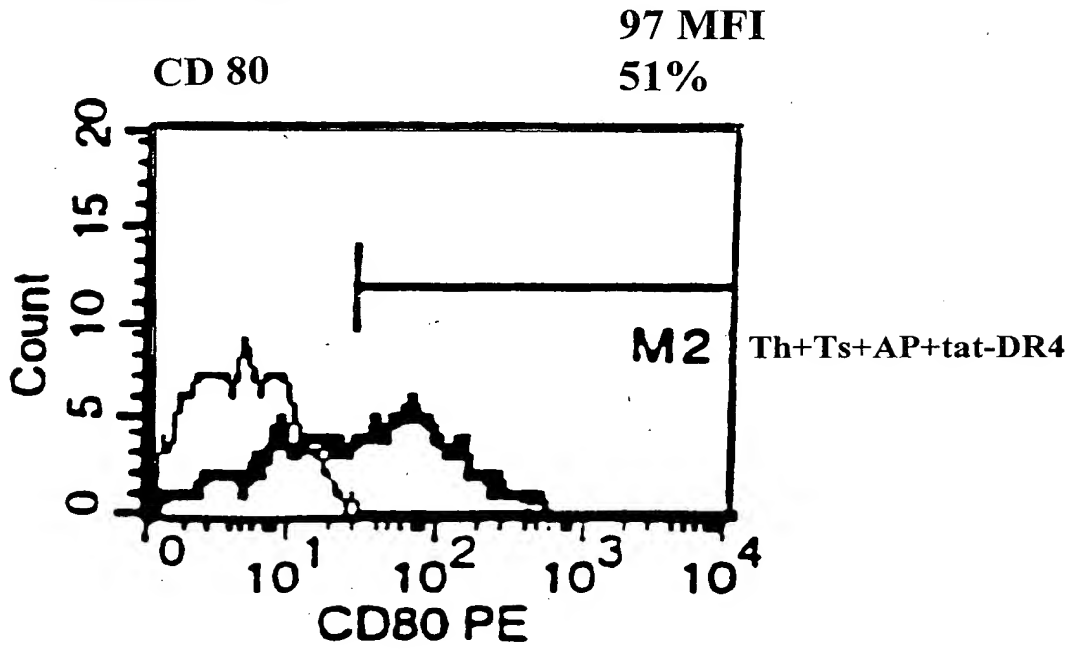
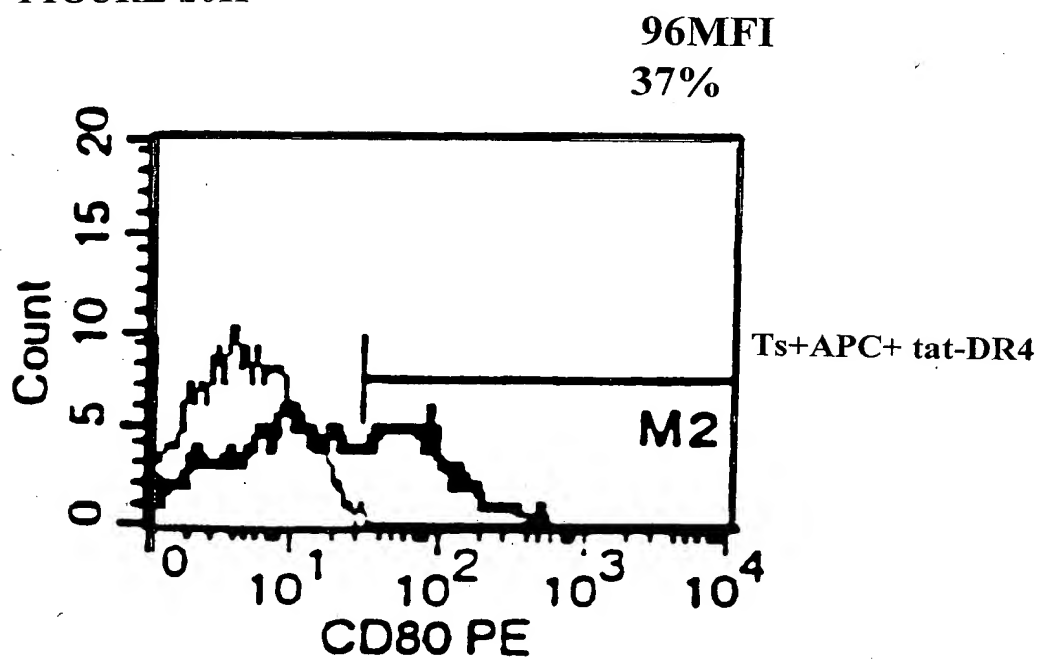


FIGURE 20H





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FIGURE 20I

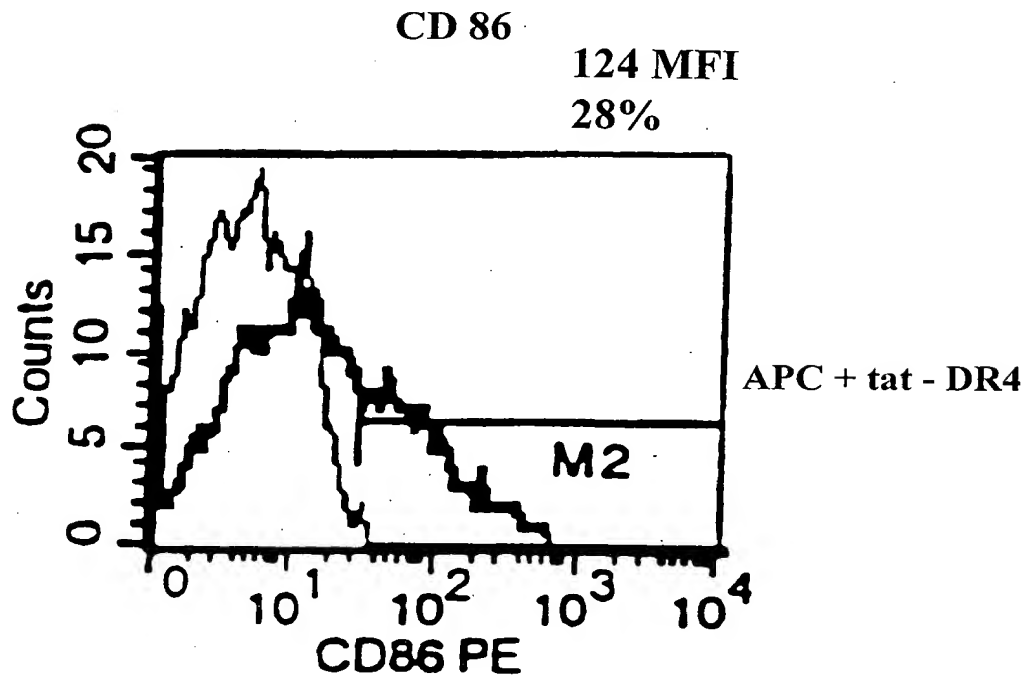
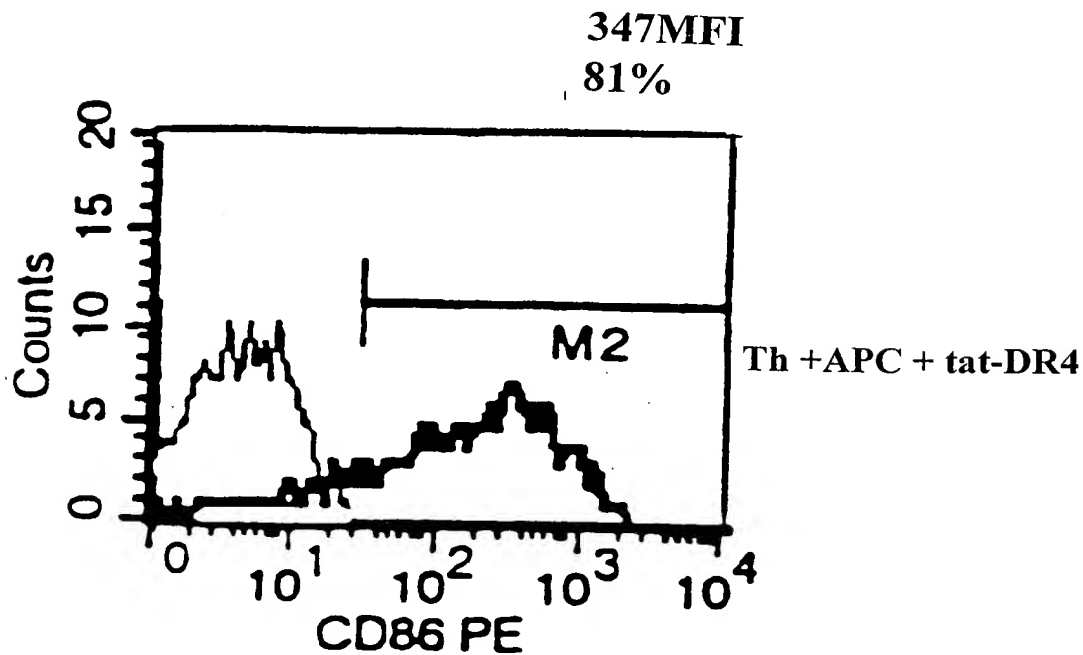


FIGURE 20J



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FIGURE 20K

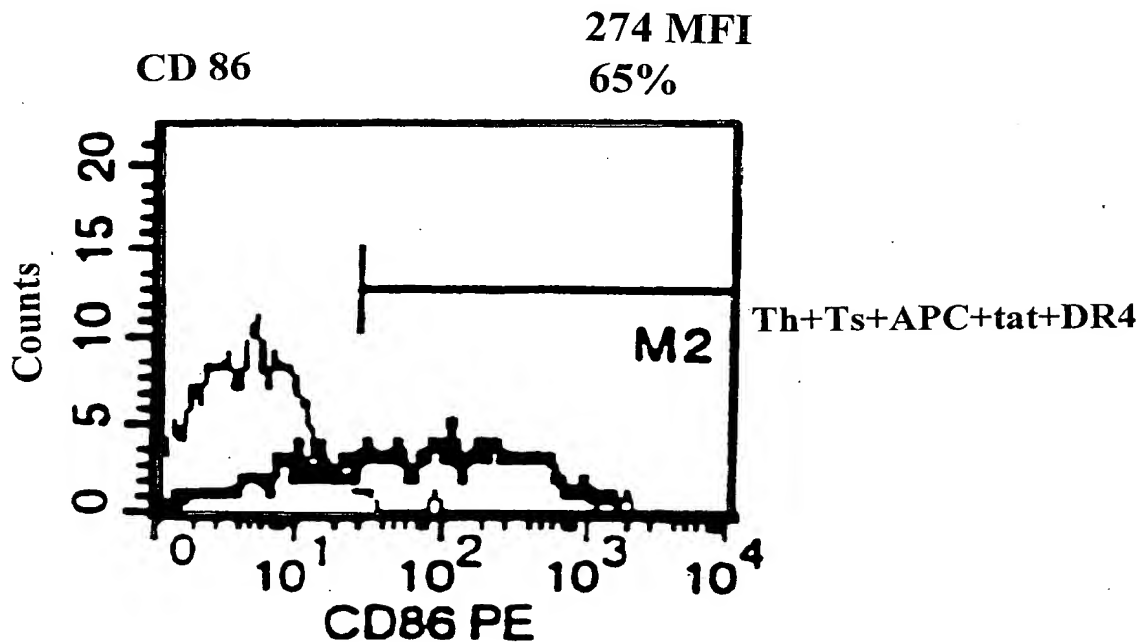
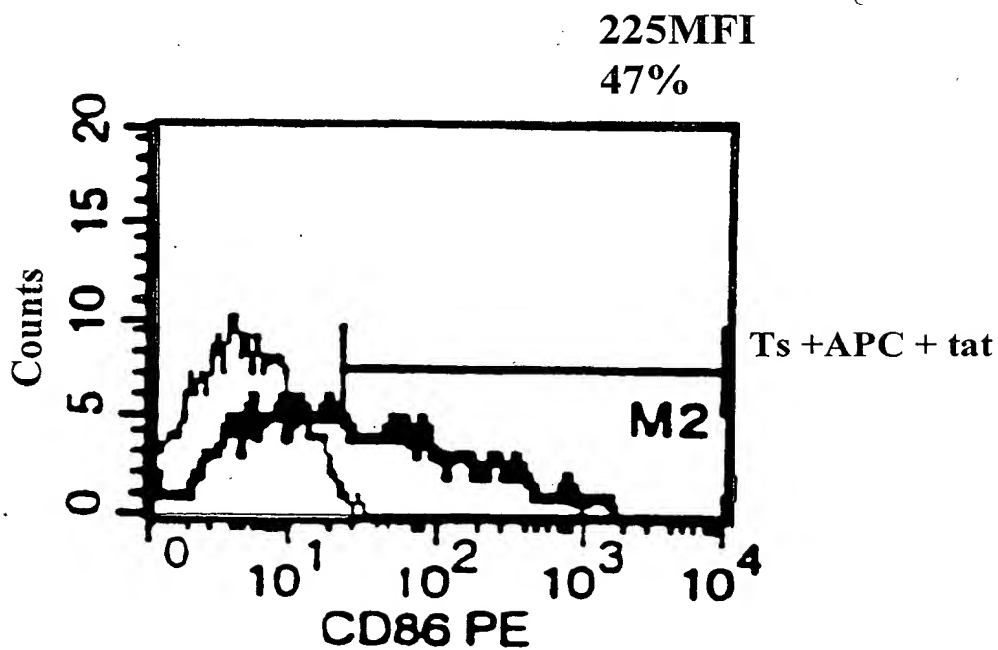


FIGURE 20L





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FIGURE 21A

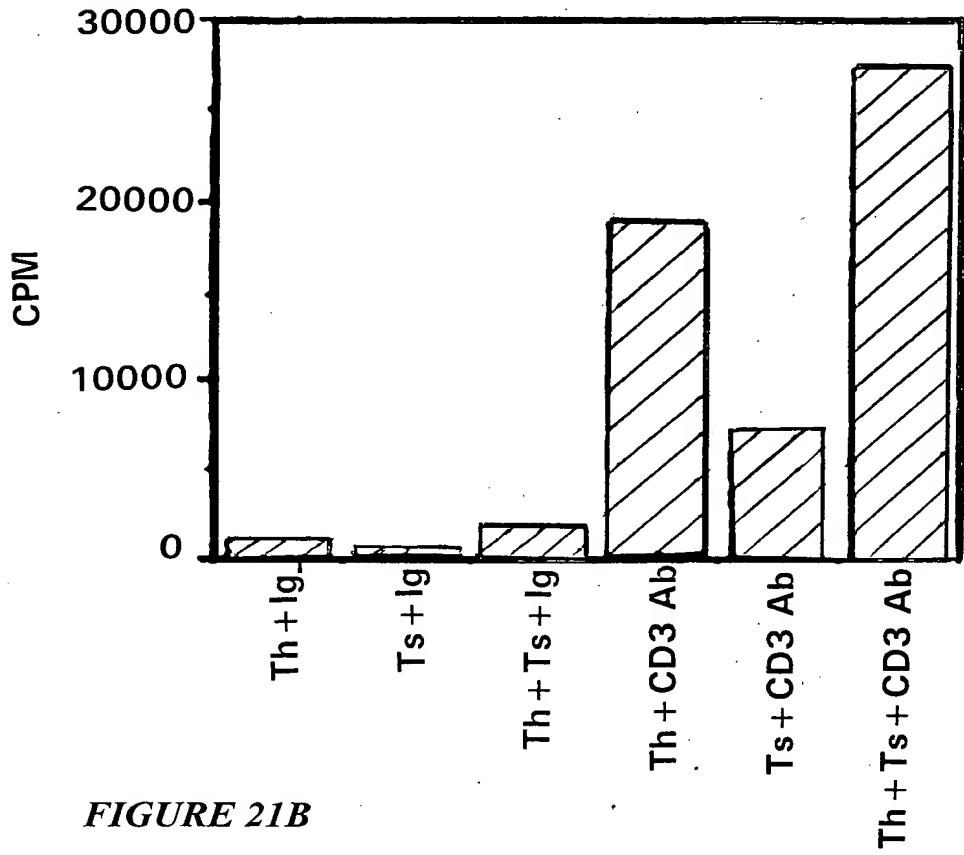
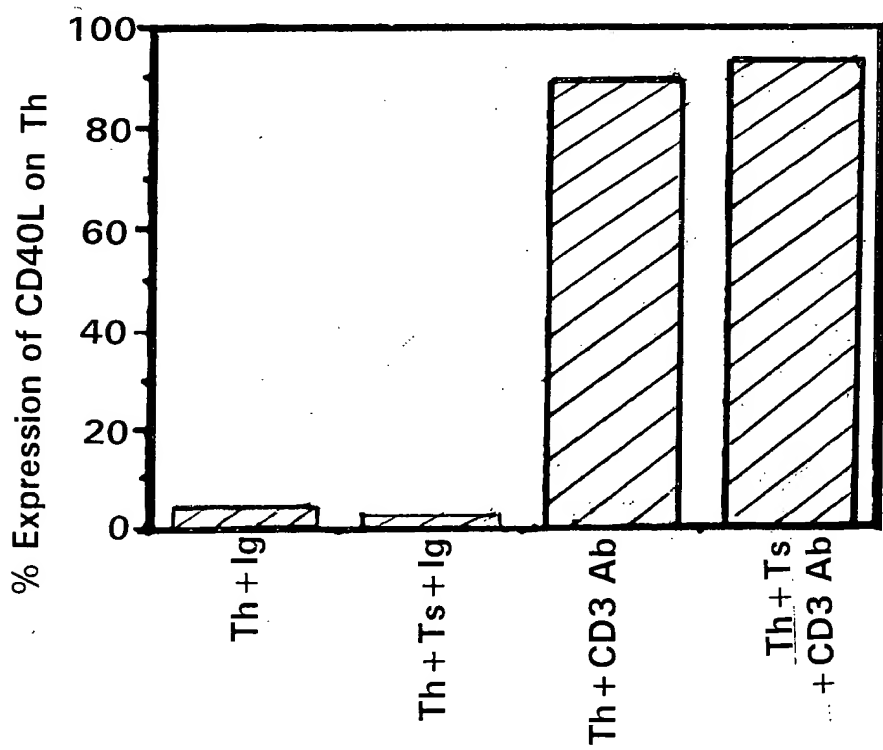


FIGURE 21B





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FIGURE 21C

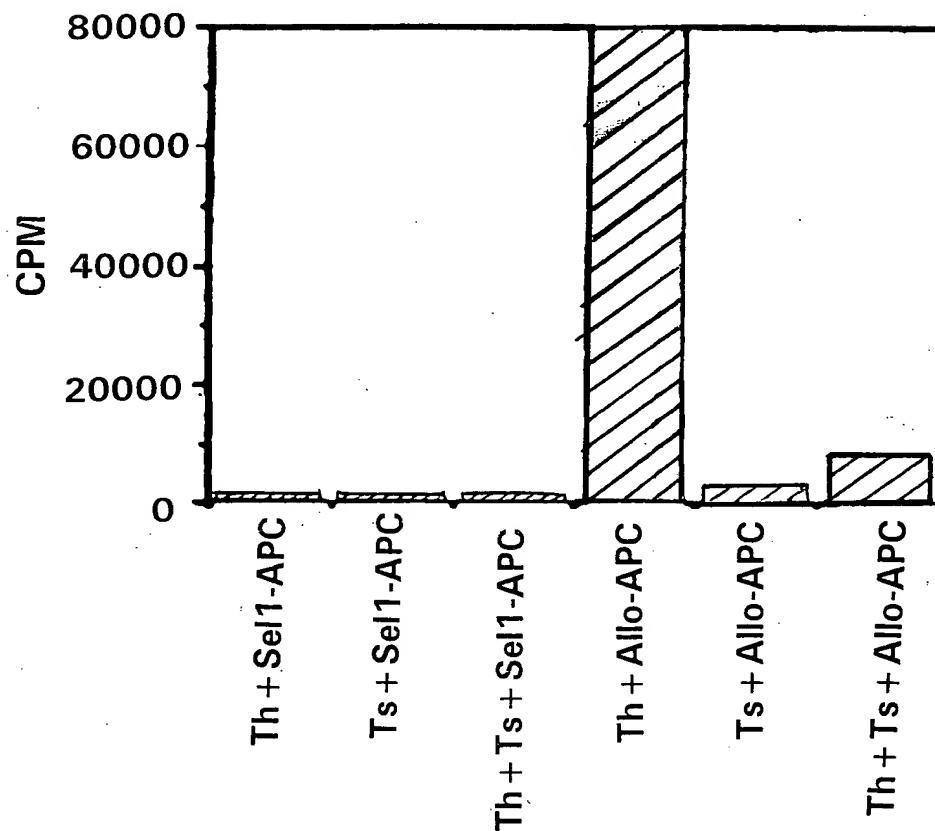
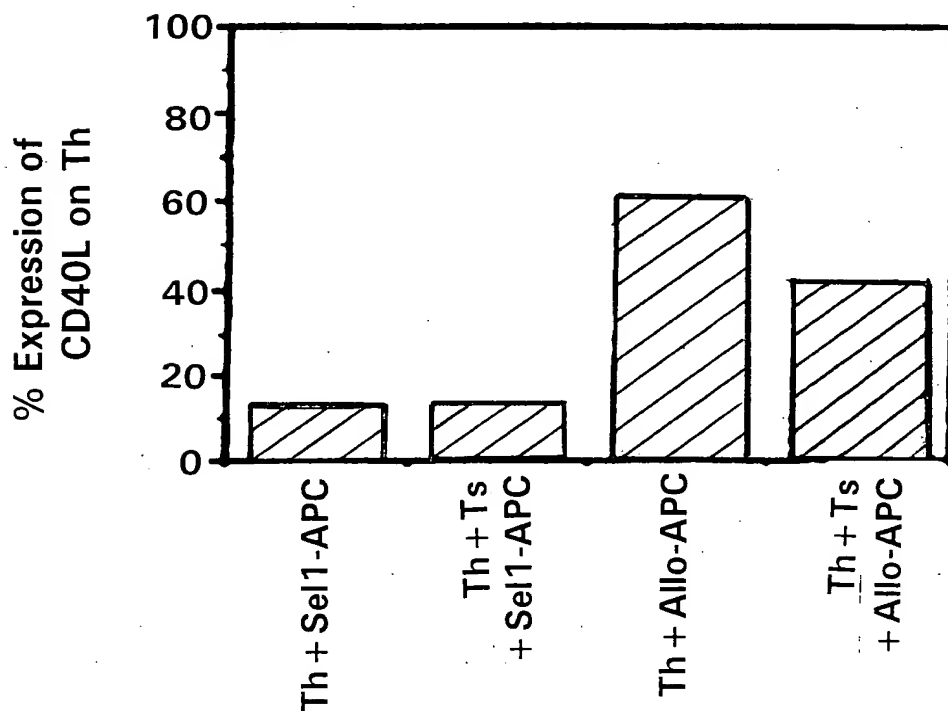


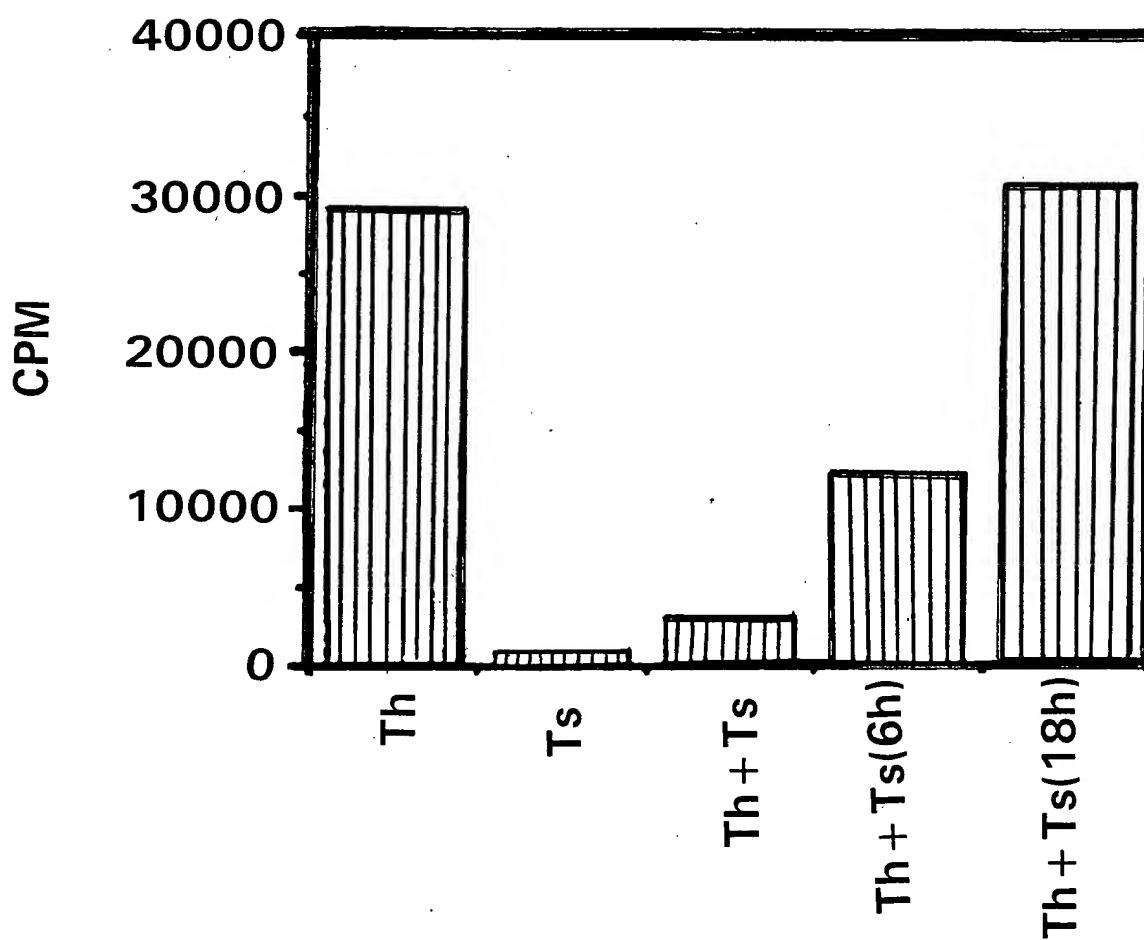
FIGURE 21D





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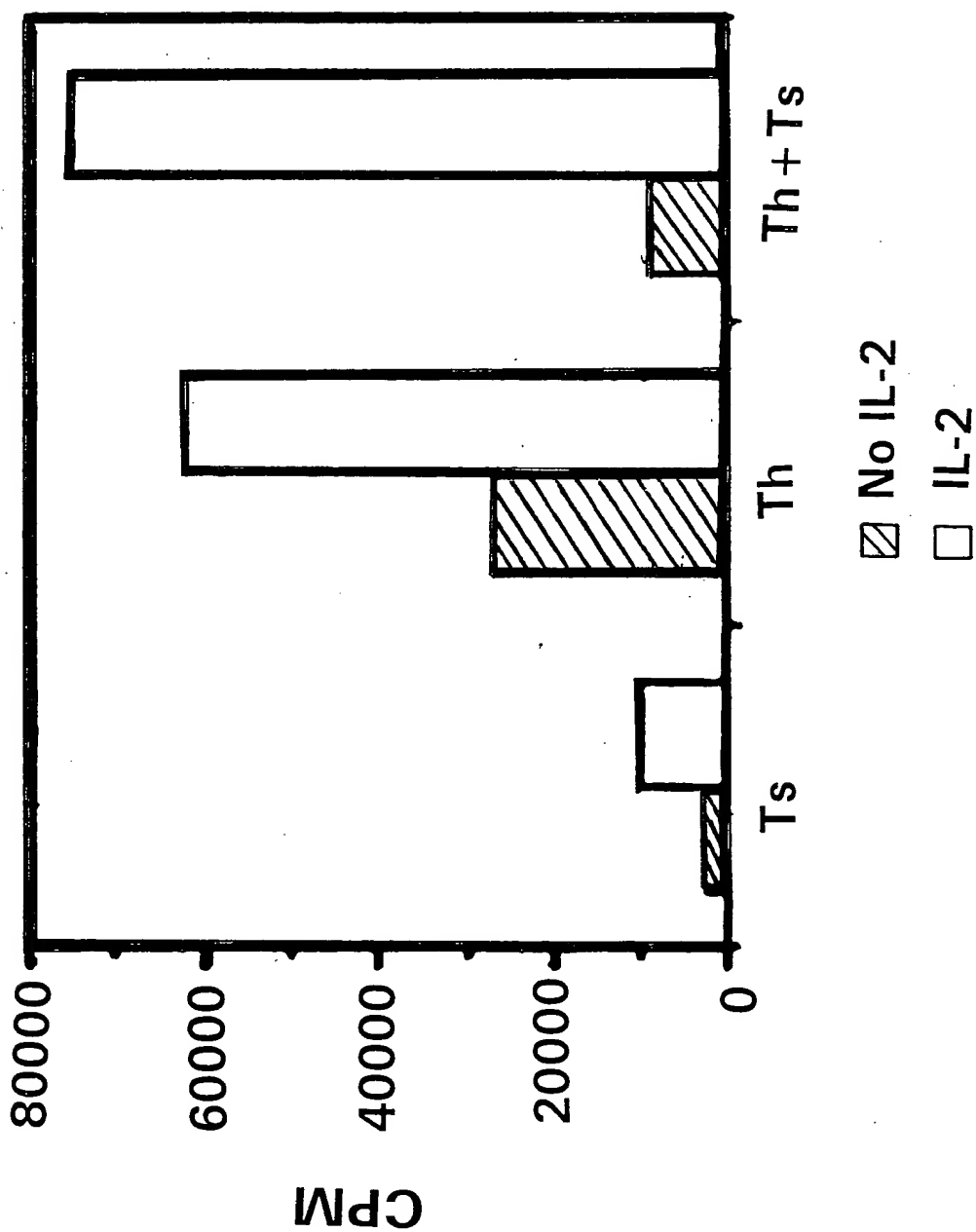
FIGURE 22





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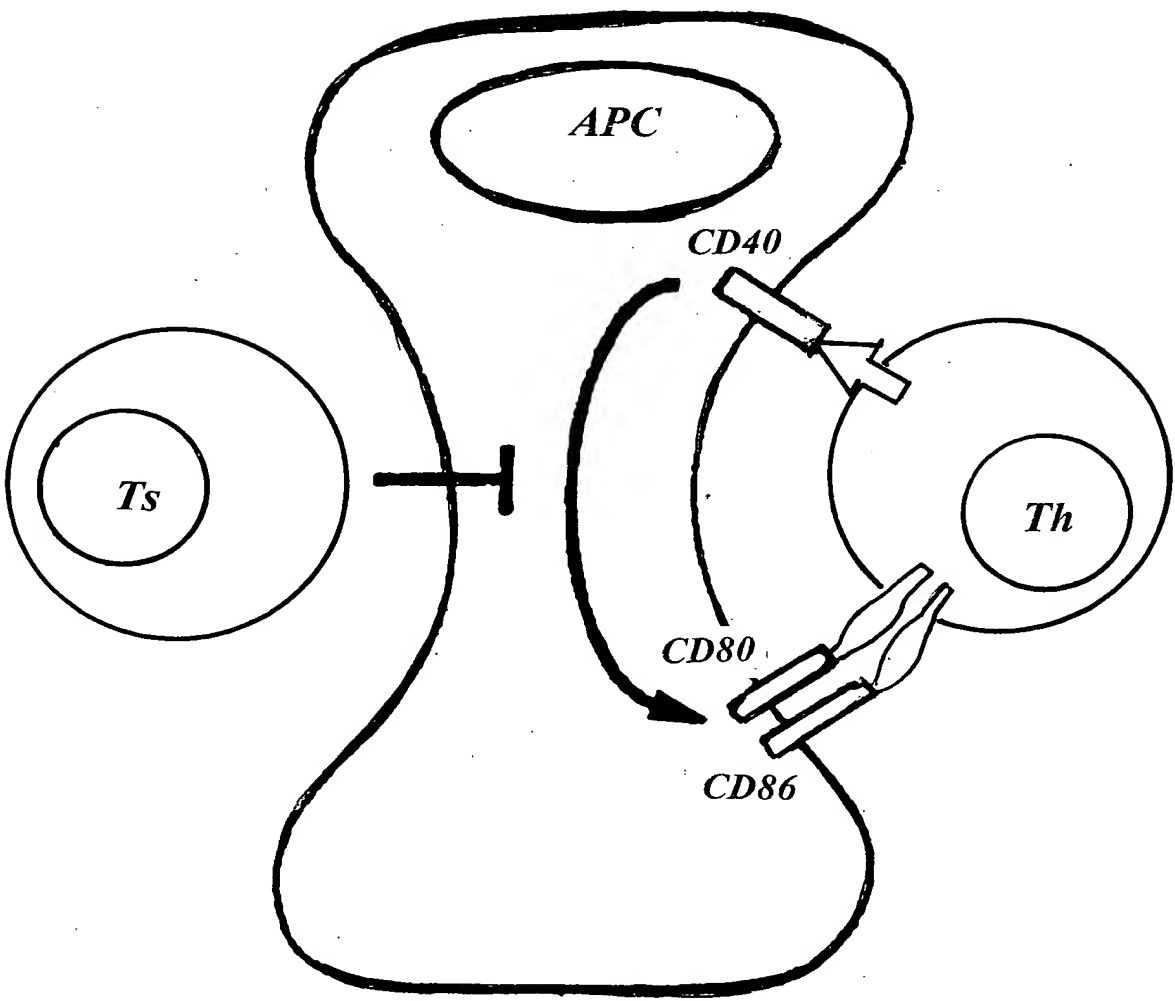
FIGURE 23





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FIGURE 24





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**FIGURE 25** HLA A, B, and DR Antigen Values and Split Equivalences

A Locus	Equivalent	B Locus	Equivalent	DR Locus	Equivalent
1	1	5	5	1	1
2	2	7	7	2	2,15,16
3	3	8	8	3	3,17,18
9	9	12	12	4	4
10	10,66	13	13	5	5,11,12
11	11	14	14,64,65	6	6,13,14
19	19,74	15	15,75,76,77	7	7
23	23	16	16	8	8
24	24	17	17,58	9	9
25	25	18	18	10	10
26	26	21	21	11	11,5
28	26,68,69	22	22,54,55,56	12	12,5
29	29	27	27	13	13,6
30	30	35	35	14	14,6
31	31	37	37	15	15,2
32	32	38	38	16	16,2
33	33	39	39	17	17,3
34	34	40	40,61	18	18,3
36	36	41	41	51	51
43	43	42	42	52	52
66	66,10	44	44	53	53
68	68,28	45	45	*103	103
69	69,28	46	46	*1403	1403
74	74,19	47	47	*1404	1404
80	80	48	48	**99	99
*203	203	49	49		
*210	210	50	50		
*2403	2403	51	51		
**99	99	52	52		
		53	53		
		54	54,22		
		55	55,22		
		56	56,22		
		57	57		
		58	58,17		
		59	59		
		60	60		
		61	61,40		
		62	62		
		63	63		
		64	64,14		
		65	65,14		
		67	67		
		70	70,71,72		
		71	71,70		
		72	72,70		
		73	73		
		75	75,15		
		76	76,15		
		77	77,15		
		*703	703		
		*3901	3901		
		*3902	3902		
		*4005	4005		
		*5102	5102		
		*5103	5103		
		*7801	7801		
		*8101	8101		
		**99	99		** Code means not tested



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FIGURE 26A

	1	10	20	30	40	50	60	70	80	90	100	
DRB1*0101	GDTRPRFLWQLKFECHFFNGTERVRLLERCIYNQEE SVRFDSDVGEYRAVTELGRPDAEYWNSQK											
	DLLEQRRAAVDITYCRHNYGVGESFTVQRRVEPKVTVY											
DRB1*01021	-----											AV-----
DRB1*01022	*****-----											-----
AV*****	-----											
DRB1*0103	-----											I--DE-----
DRB1*0104	-----											N-----V-----
DRB1*15011	-----P-R-----F-D-YF-----F-----											I-A-----V-----Q-----
DRB1*15012	*****-----P-R-----F-D-YF-----F-----											I-A-----V-----
DRB1*15021	-----P-R-----F-D-YF-----F-----											I-A-----Q-----
DRB1*15022	*****-----F-D-YF-----F-----											I-A-----
DRB1*15023	*****-----P-R-----F-D-YF-----F-----											I-A-----
DRB1*1503	-----P-R-----F-D-HF-----F-----											I-A-----V-----Q-----
DRB1*1504	*****-----P-R-----F-D-YF-----F-----											F-A-----V-----
DRB1*1505	*****-----P-R-----F-D-YF-----F-----											A-----V-----
DRB1*1506	*****-----P-R-----F-D-YF-----F-A-----											I-A-----V-----
DRB1*16011	-----P-R-----F-D-YF-----											F-D-----Q-----
DRB1*16012	*****-----P-R-----F-D-YF-----											F-D-----
DRB1*16021	-----P-R-----F-D-YF-----											D-----Q-----
DRB1*16022	*****-----P-R-----F-D-YF-----											D-----
DRB1*1603	-----P-R-----F-D-YF-----											F-D-A-----Q-----
DRB1*1604	*****-----P-R-----F-D-YF-----											F-D-L-----
DRB1*1605	*****-----P-R-----F-D-YF-----											I-D-----
DRB1*1607	*****-----P-R-----FPD-YF-----											I-D-----
DRB1*1608	*****-----P-R-----F-D-YF-----N-----											F-D-----
DRB1*03011	-----EYSTS-----Y-D-YFH-----N-----F-----											K-GR--N-----V-----
DRB1*03012	*****--EYSTS-----Y-D-YFH-----N-----F-----											K-GR--N-----V-----



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FIGURE 26B

DRB1\*03021 -----EYSTS-----F--YFH--N-----K-GR--N-----  
H-----  
DRB1\*03022 -----EYSTS-----F--YFH--N-----K-GR--N-----  
H---\*\*  
DRB1\*0303 \*\*\*\*\*YSTS-----F--YFH--N-----K-GR--N-----V-----  
\_\*\*\*\*\*  
DRB1\*0304 \*\*\*\*\*-EYSTS-----Y-D-YFH-----F-----K-GR--N-----V-  
\*\*\*\*\*  
DRB1\*0305 \*\*\*\*\*-EYSTS-----Y-D-YFH--N-----F-----K-GR--N-----  
\_\*\*\*\*\*  
DRB1\*0306 \*\*\*\*\*-EYSTS-----Y-D-YFH--N-----K-GR--N-----V-----  
\_\*\*\*\*\*  
DRB1\*0307 -----EYSTS-----F-D-YFH--N-----F-----K-GR--N-----V-----  
-H-----  
DRB1\*0308 -----EYSTS-----Y-D-YFH--N-----F-----E-----K-GR--N-----V-----  
-H-----  
DRB1\*0309 \*\*\*\*\*-EYSTS-----Y-D-YFH-R-N-----F-----K-GR--N-----  
\_\*\*\*\*\*  
DRB1\*0310 -----EYSTS-----Y-D-YFH--N-----F-----A-H-----K-GR--N-----V-----  
-H-----  
DRB1\*0311 \*\*\*\*\*-EYSTS-----Y-D-YFH--N-----F-----K-GQ--N-----V-----  
\_\*\*\*\*\*  
DRB1\*04011 -----E-V-H-----F-D-YF-H--Y-----K-----Y-  
E-----  
DRB1\*04012 \*\*\*\*\*-E-V-H-----F-D-YF-H--Y-----K-----  
\*\*\*\*\*  
DRB1\*0402 -----E-V-H-----F-D-YF-H--Y-----I-DE-----V-----  
\*\*\*\*\*  
DRB1\*0403 -----E-V-H-----F-D-YF-H--Y-----E-----V-----Y-  
E-----  
DRB1\*0404 -----E-V-H-----F-D-YF-H--Y-----V-----Y-  
E-----  
DRB1\*04051 -----E-V-H-----F-D-YF-H--Y-----S-----  
\*\*\*\*\*  
DRB1\*04052 \*\*\*\*\*-E-V-H-----F-D-YF-H--Y-----S-----  
\*\*\*\*\*  
DRB1\*0406 -----E-V-H-----F-D-YF-H-----E-----V-----Y-  
E-----  
DRB1\*0407 -----E-V-H-----F-D-YF-H--Y-----E-----  
\*\*\*\*\*  
DRB1\*0408 \*\*\*\*\*-E-V-H-----F-D-YF-H--Y-----  
\*\*\*\*\*  
DRB1\*0409 \*\*\*\*\*-F-D-YF-H--Y-----S-----K-----  
\*\*\*\*\*  
DRB1\*0410 \*\*\*\*\*-E-V-H-----F-D-YF-H--Y-----S-----V-----  
\*\*\*\*\*  
DRB1\*0411 -----E-V-H-----F-D-YF-H--Y-----S-----E-----V-----Y-  
E-----  
DRB1\*0412 \*\*\*\*\*-E-V-H-----F-D-YF-H--Y-----S-----I-D-L-----V-----  
\*\*\*\*\*  
DRB1\*0413 \*\*\*\*\*H-----F-D-YF-H--Y-----K-----V-----  
\*\*\*\*\*  
DRB1\*0414 \*\*\*\*\*-F-D-YF-H--Y-----I-DE-----  
\*\*\*\*\*



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FIGURE 26C

DRB1\*0415 \*\*\*\*\*E-V-H-----F-D-YF-H--Y-----E-----F-D-----V-  
\*\*\*\*\*  
DRB1\*0416 \*\*\*\*\*-----F-D-YF-H--Y-----Q-----K-----  
\*\*\*\*\*  
DRB1\*0417 \*\*\*\*\*-----F-D-YF-H--Y-----S-----E-----  
\*\*\*\*\*  
DRB1\*0418 \*\*\*\*\*-----F-D-YF-H--Y-----I-D--L-----V-----  
\*\*\*\*\*  
DRB1\*0419 \*\*\*\*\*H-----F-D-YF-H-----  
\*\*\*\*\*  
DRB1\*0420 \*\*\*\*\*-----F-D-YF-H-----E-----  
\*\*\*\*\*  
DRB1\*0421 \*\*\*\*\*E-V-H-----F-D-YF-H-----K-----  
\*\*\*\*\*  
DRB1\*0422 \*\*\*\*\*E-V-H-----F-D-YF-H--Y-----K-GR--N-----V-----  
\*\*\*\*\*  
DRB1\*0423 \*\*\*\*\*E-V-H-----F-D-YF-H--Y-----V-R-----  
\*\*\*\*\*  
DRB1\*0424 \*\*\*\*\*E-V-H-----F-D-YF-H--Y-----S-----R-----  
\*\*\*\*\*  
DRB1\*0425 \*\*\*\*\*E-V-H-----F-D-YF-H--Y-----F-D--L-----V-----  
\*\*\*\*\*  
DRB1\*0426 \*\*\*\*\*E-V-H-----F-D-YF-H--Y-----T-----K-----  
\*\*\*\*\*  
DRB1\*0427 \*\*\*\*\*E-V-H-----F-D-YF-H--Y-----E-----AV-----  
\*\*\*\*\*  
DRB1\*11011 -----EYSTS-----F-D-YF--Y-----F-----E-----F-D-----  
H-----  
DRB1\*11012 -----EYSTS-----F-D-YF--Y-----F-----E-----F-D-----  
H-----  
DRB1\*11013 \*\*\*\*\*EYSTS-----F-D-YF--Y-----F-----E-----F-D-----  
\*\*\*\*\*  
DRB1\*1102 -----EYSTS-----F-D-YF--Y-----F-----E-----I-DE-----V-----  
H-----  
DRB1\*1103 -----EYSTS-----F-D-YF--Y-----F-----E-----F-DE-----V-----  
H-----  
DRB1\*11041 -----EYSTS-----F-D-YF--Y-----F-----E-----F-D-----V-----  
\*\*\*\*\*  
DRB1\*11042 -----EYSTS-----F-D-YF--Y-----F-----E-----F-D-----V-----  
H-----  
DRB1\*1105 \*\*\*\*\*EYSTG-----F-D-YF--Y-----F-----E-----F-D-----  
\*\*\*\*\*  
DRB1\*1106 \*\*\*\*\*EYSTS-----F-D-YF--Y-----F-----E-----F-D-----AV-----  
\*\*\*\*\*  
DRB1\*1107 \*\*\*\*\*EYSTS-----F-D-YF--Y-----F-----E-----K-GR--N-----V-----  
\*\*\*\*\*  
DRB1\*11081 \*\*\*\*\*S-----F-D-YF--Y-----F-----E-----D-----  
\*\*\*\*\*  
DRB1\*11082 \*\*\*\*\*S-----F-D-YF--Y-----F-----E-----D-----  
\*\*\*\*\*  
DRB1\*1109 \*\*\*\*\*-----F-D-YFH--N-----F-----E-----F-D-----  
\*\*\*\*\*  
DRB1\*1110 \*\*\*\*\*-----F-D-YFH--F-----F-----E-----F-D-----  
\*\*\*\*\*



FIGURE 26D

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DRB1\*1111 \*\*\*\*\*S-----F-D-YF---Y-----F-----E-----F--DE-----  
\*\*\*\*\*  
DRB1\*1112 \*\*\*\*\*-----F-D-YF---F-----F-----E-----F-D-----  
\*\*\*\*\*  
DRB1\*1113 -----EYSTS-----F-D-YFH---F-----F-----E-----R-----V-----  
\*\*\*\*\*  
DRB1\*1114 -----EYSTS-----F-D-YF---Y-----F-----E-----I-DE-----  
\*\*\*\*\*  
DRB1\*1115 -----EYSTS-----F-D-YF---DL-----F-----E-----F-D-----  
H-----  
DRB1\*1116 \*\*\*\*\*-EYSTS-----F-D-YFH---N-----F-----E-----I-DE-----V-----  
\*\*\*\*\*  
DRB1\*1117 -----EYSTS-----F-D-YFH---F-----E-----R-E-----V-----  
H-----  
DRB1\*1118 \*\*\*\*\*-EYSTS-----F-D-YF---Y-----F-----E-----I-D-----V-----  
\*\*\*\*\*  
DRB1\*1119 \*\*\*\*\*-EYSTS-----F-D-YF---Y-----F-----E-----I-D-----  
\*\*\*\*\*  
DRB1\*1120 \*\*\*\*\*-EYSTS-----F-D-YFH---N-----F-----E-----I-DE-----  
\*\*\*\*\*  
DRB1\*1121 \*\*\*\*\*-EYSTS-----F-D-YF---Y-----F-----E-----I-DE-----AV-  
\*\*\*\*\*  
DRB1\*1122 \*\*\*\*\*-E-V-H-----F-D-YF---Y-----F-----E-----F-D-----  
\*\*\*\*\*  
DRB1\*1123 \*\*\*\*\*-EYSTS-----F-D-YF---Y-----F-----E-----F-D-L-----  
\*\*\*\*\*  
DRB1\*1124 \*\*\*\*\*-EYSTS-----F-D-YF---D-----F-----E-----F-D-----  
\*\*\*\*\*  
DRB1\*1125 \*\*\*\*\*-EYSTS-----F-D-YF---Y-----F-----E-----F-D-L-----V-----  
\*\*\*\*\*  
DRB1\*1126 \*\*\*\*\*-EYSTS-----F-D-YF---Y-----F-----E-----  
\*\*\*\*\*  
DRB1\*1127 \*\*\*\*\*-EYSTS-----F-D-YF---Y-----F-----E-----F-D---N-----  
\*\*\*\*\*  
DRB1\*1128 \*\*\*\*\*-EYSTS-----F-D-YF---N-----F-----E-----F-D-----  
\*\*\*\*\*  
DRB1\*1129 \*\*\*\*\*-EYSTS-----F-D-YF-----F-----E-----F-D-----  
\*\*\*\*\*  
DRB1\*1130 \*\*\*\*\*-EL-S-----F-D-YF---Y-----F-----E-----F-D-----  
\*\*\*\*\*  
DRB1\*1131 -----EYSTS-----F-D-YF---Y-----F-----E-H---I-D-----  
H-----  
DRB1\*1201 -----EYSTG-Y-----HFH---LL-----F-----V-S---I-D-----AV-----  
-H-----  
DRB1\*12021 \*\*\*\*\*-EYSTG-Y-----HFH---LL-----F-----V-S---F-D-----  
AV\*\*\*\*\*  
DRB1\*12022 \*\*\*\*\*-EYSTG-Y-----HFH---LL-----F-----V-S---F-D-----AV-  
\*\*\*\*\*  
DRB1\*12032 \*\*\*\*\*-EYSTG-Y-----HFH---LL-----F-----V-S---I-D-----V-----  
\*\*\*\*\*  
DRB1\*1204 \*\*\*\*\*EYSTG-Y-----HFH---LL-----F-----E-----I-D-----  
AV\*\*\*\*\*  
DRB1\*1205 \*\*\*\*\*-EYSTG-Y-----HFH---FL-----F-----V-S---I-D-----AV-----  
\*\*\*\*\*



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FIGURE 26E

DRB1\*1301 —EYSTS—F-D-YFH—N—F—I-DE—V—  
H—  
DRB1\*1302 —EYSTS—F-D-YFH—N—F—I-DE—  
H—  
DRB1\*13031 —EYSTS—F-D-YF—Y—S—I-DK—  
H—\*  
DRB1\*13032 \*\*\*\*\*EYSTS—F-D-YF—Y—S—I-DK—  
\*\*\*\*\*  
DRB1\*1304 —EYSTS—F-D-YF—Y—F—S—I-DE—V—  
H—\*  
DRB1\*1305 \*\*\*\*\*EYSTS—F-D-YFH—N—F—F-D—  
\*\*\*\*\*  
DRB1\*1306 \*\*\*\*\*F-D-YFH—N—F—I-D—V—  
\*\*\*\*\*  
DRB1\*13071 \*\*\*\*\*EYSTS—F-D-YF—Y—F-D—  
\*\*\*\*\*  
DRB1\*1308 \*\*\*\*\*EYSTS—F-D-YFH—F—I-DE—V—  
\*\*\*\*\*  
DRB1\*1309 \*\*\*\*\*EYSTS—F-D-YFH—N—F—I-A—V—  
\*\*\*\*\*  
DRB1\*1310 \*\*\*\*\*EYSTS—F-D-YFH—N—F—I-DK—V—  
\*\*\*\*\*  
DRB1\*1311 \*\*\*\*\*EYSTS—F-D-YF—Y—F—F-D—V—  
\*\*\*\*\*  
DRB1\*1312 \*\*\*\*\*EYSTS—F-D-YF—Y—S—I-D—  
\*\*\*\*\*  
DRB1\*1313 \*\*\*\*\*EYSTS—F-D-YF—Y—S—I-D-L—  
\*\*\*\*\*  
DRB1\*1314 \*\*\*\*\*TS—F-D-YF—Y—F—F-D—  
\*\*\*\*\*  
DRB1\*1315 \*\*\*\*\*EYSTS—F—YFH—N—F—I-DE—V—  
\*\*\*\*\*  
DRB1\*1316 \*\*\*\*\*EYSTS—F-D-YFH—N—F—I-DE—D—  
\*\*\*\*\*  
DRB1\*1317 —EYSTG—Y—F-D-YF—Y—F—I-DE—V—  
H—  
DRB1\*1318 \*\*\*\*\*EYSTS—F-D-YFH—N—F—F-D-L—V—  
\*\*\*\*\*  
DRB1\*1319 —EYSTS—F—YFH—F—I-DE—V—H—  
—  
DRB1\*1320 \*\*\*\*\*EYSTS—F-D-YFH—N—F—DE—V—  
\*\*\*\*\*  
DRB1\*1321 —EYSTS—F-D-YF—Y—F—S—F-D—H—  
—  
DRB1\*1322 \*\*\*\*EYSTS—F-D-YF—Y—F—I-DE—V—  
\*\*\*\*\*  
DRB1\*1323 \*\*\*\*\*EYSTS—F-D-YF—Y—F—I-DE—  
\*\*\*\*\*  
DRB1\*1324 \*\*\*\*\*EYSTS—F-D-YF—Y—F—F-DE—V—  
\*\*\*\*\*  
DRB1\*1325 \*\*\*\*\*EYSTS—F-D-YF—Y—F—D—  
\*\*\*\*\*  
DRB1\*1326 \*\*\*\*\*EYSTS—F—YFH—N—F-D—  
\*\*\*\*\*





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FIGURE 26F

DRB1\*1327 \*\*\*\*\*--EYSTS-----Y-D-YFH--N-----F-----I-DE-----V-----  
\*\*\*\*\*  
DRB1\*1328 \*\*\*\*\*-EYSTS-----F-D-YFH--N-----F-----I-DE-----R-V-----  
\*\*\*\*\*  
DRB1\*1329 \*\*\*\*\*--EYSTS-----F-D-YFH--N-----F-----DE-----  
\*\*\*\*\*  
DRB1\*1330 \*\*\*\*\*--EYSTS-----F-D-YF--Y-----F-----S-----I-D-----  
\*\*\*\*\*  
DRB1\*1331 \*\*\*\*\*--EYSTS-----F-D-YFH--N-----F-----V-----I-DE-----  
\*\*\*\*\*  
DRB1\*1332 \*\*\*\*\*--EYSTS-----F-D-YFH--N-----S-----I-DE-----V-----  
\*\*\*\*\*  
DRB1\*1333 \*\*\*\*\*--EYSTS-----F-D-YF--Y-----S-----I-DK-----N-----  
\*\*\*\*\*  
DRB1\*1401 -----EYSTS-----F-D-YFH--F-----A-H-----R-E-----V-----  
\*\*\*\*\*  
DRB1\*1402 -----EYSTS-----F--YFH--N-----  
\*\*\*\*\*  
DRB1\*1403 -----EYSTS-----F--YFH--N-----D-L-----  
\*\*\*\*\*  
DRB1\*1404 \*\*\*\*\*--EYSTG-Y-----F-D-YFH--F-----A-H-----R-E-----V-----  
\*\*\*\*\*  
DRB1\*1405 \*\*\*\*\*--EYSTS-Q-----F-D-YFH--F-----R-E-----V-----  
\*\*\*\*\*  
DRB1\*1406 \*\*\*\*\*--EYSTS-----F--YFH--N-----V-----  
\*\*\*\*\*  
DRB1\*1407 \*\*\*\*\*EYSTS-----F-D-YFH--F-----A-H-----R-E-----  
\*\*\*\*\*  
DRB1\*1408 \*\*\*\*\*--EYSTS-----F-D-YFH--F-----H-----R-E-----V-----  
\*\*\*\*\*  
DRB1\*1409 \*\*\*\*\*--EYSTS-----F-D-YFH--N-----  
\*\*\*\*\*  
DRB1\*1410 \*\*\*\*\*-E-V-H-----F-D-YFH--F-----A-H-----R-E-----V-----  
\*\*\*\*\*  
DRB1\*1411 \*\*\*\*\*EYSTG-Y-----F-D-YFH--F-----E-----R-E-----  
V\*\*\*\*\*  
DRB1\*1412 \*\*\*\*\*S-----F--YFH--N-----D-L-----  
V\*\*\*\*\*  
DRB1\*1413 \*\*\*\*\*EYSTS-----F--YFH--N-----S-----  
\*\*\*\*\*  
DRB1\*1414 \*\*\*\*\*--EYSTS-----F-D-YFH--F-----R-E-----  
\*\*\*\*\*  
DRB1\*1415 \*\*\*\*\*STG-Y-----F-D-YFH--F-----F-D-L-----V-----  
\*\*\*\*\*  
DRB1\*1416 \*\*\*\*\*-EYSTS-----F-D-YFH--F-----A-H-----I-DE-----V-----  
\*\*\*\*\*  
DRB1\*1417 \*\*\*\*\*--EYSTS-----F-D-YFH--N-----F-----V-----  
\*\*\*\*\*  
DRB1\*1418 \*\*\*\*\*EYSTS-----F--YFH--N-----R-E-----V-----  
\*\*\*\*\*  
DRB1\*1419 -----EYSTS-----F--YFH--N-----K-----  
\*\*\*\*\*  
DRB1\*1420 \*\*\*\*\*EYSTS-----F--YFH--F-----V-----  
\*\*\*\*\*



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FIGURE 26G

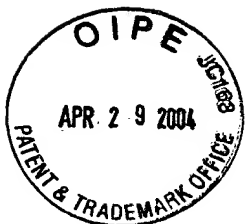
DRB1\*1421 \*\*\*\*\*EYSTS-----F-D-YFH---N-----F-----K-----V-  
\*\*\*\*\*  
DRB1\*1422 \*\*\*\*\*EYSTS-----F-D-YFH---F-----A-H----F-D-----  
\*\*\*\*\*  
DRB1\*1423 \*\*\*\*\*EYSTS-----F-D-YFH---F-----R--E-----V-----  
\*\*\*\*\*  
DRB1\*1424 \*\*\*\*\*EYSTS-----F--YFH---N-----I--A-----  
H-----  
DRB1\*1425 \*\*\*\*\*EYSTS-----F-D-YF---Y-----A-H----F-D-----  
\*\*\*\*\*  
DRB1\*1426 \*\*\*\*\*EYSTS-----QF-D-YFH---F-----A-H----R--E-----V-----  
\*\*\*\*\*  
DRB1\*1427 \*\*\*\*\*EYSTS-----F--YFH---N-----F-D--L-----  
\*\*\*\*\*  
DRB1\*1428 \*\*\*\*\*EYSTG-Y-----F-D-YFH---F-----A-H----R--E-----  
AV\*\*\*\*\*  
DRB1\*1429 \*\*\*\*\*EYSTS-----F--YFH---N-----AV-----  
\*\*\*\*\*  
DRB1\*1430 \*\*\*\*\*EYSTS-----F-D-YFH---N-----F-----  
\*\*\*\*\*  
DRB1\*1431 \*\*\*\*\*EYSTG-Y-----F-D-YFH---F-----A-H----R-----V-----  
\*\*\*\*\*  
DRB1\*0701 ---Q---G-YK-----QF-LF---F-----V-S---I-D-GQ-V-----  
H-E---  
DRB1\*0703 \*\*\*\*\*G-YK-----QF-SLF---F-----V-S---I-D-GQ-V-----  
\*\*\*\*\*  
DRB1\*0801 -----EYSTG-Y-----F-D-YF---Y-----S-----F-D-L-----  
\*\*\*\*\*  
DRB1\*08021 -----EYSTG-Y-----F-D-YF---Y-----F-D-L-----  
H-----  
DRB1\*08022 \*\*\*\*\*EYSTG-Y-----F-D-YF---Y-----F-D-L-----  
-H-----  
DRB1\*08032 -----EYSTG-Y-----F-D-YF---Y-----S-----I-D-L-----  
H-----  
DRB1\*08041 -----EYSTG-Y-----F-D-YF---Y-----F-D-L-----V-----  
H---\*  
DRB1\*08042 \*\*\*\*\*-----F-D-YF---Y-----F-D-L-----V-----  
\*\*\*\*\*  
DRB1\*08043 \*\*\*\*\*EYSTG-Y-----F-D-YF---Y-----F-D-L-----V-----  
\*\*\*\*\*  
DRB1\*0805 \*\*\*\*\*EYSTG-Y-----F-D-YF---Y-----S-----F-D-----  
\*\*\*\*\*  
DRB1\*0806 \*\*\*\*\*EYSTG-Y-----F-D-YF---Y-----S-----F-D-L-----V-----  
\*\*\*\*\*  
DRB1\*0807 \*\*\*\*\*EYSTG-Y-----F-D-YF---Y-----V-----F-D-L-----  
\*\*\*\*\*  
DRB1\*0808 \*\*\*\*\*EYSTG-Y-----F-D-YF---Y-----A-H----F-D-L-----  
\*\*\*\*\*  
DRB1\*0809 \*\*\*\*\*-----Y-----F-D-YFH---F-----F-D-L-----  
\*\*\*\*\*  
DRB1\*0810 \*\*\*\*\*EYSTG-Y-----F-D-YF---Y-----S-----I-D-L-----V-----  
\*\*\*\*\*  
DRB1\*0811 \*\*\*\*\*EYSTG-Y-----F-D-YF---Y-----A-----F-D-L-----  
\*\*\*\*\*



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FIGURE 26H

DRB1\*0812 \*\*\*\*\*EYSTG-Y---F-D-YF---Y---S---I-D-L---AV---  
-\*\*\*\*\*  
DRB1\*0813 \*\*\*\*\*EYSTG-Y---F-D-YF---Y---D-L---  
\*\*\*\*\*  
DRB1\*0814 \*\*\*\*\*EYSRG-Y---F-D-YF---Y---S---I-D-L---  
\*\*\*\*\*  
DRB1\*0815 \*\*\*\*\*EYSTG-Y---F-D-YF---Y---H---I-D-L---  
\*\*\*\*\*  
DRB1\*0816 \*\*\*\*\*EYSTG-Y---F-D-YF---D---S---F-D-L---  
\*\*\*\*\*  
DRB1\*0817 \*\*\*\*\*EYSTG-Y---F-D-YF---Y---F---S---F-D-L---  
\*\*\*\*\*  
DRB1\*0818 \*\*\*\*\*EYSTG-Y---F-D-YF---Y---S---I-D---  
\*\*\*\*\*  
DRB1\*0819 \*\*\*\*\*EYSTG-Y---F-D-YF---Y---I---I-D-L---  
\*\*\*\*\*  
DRB1\*09012 Q---K-D---Y-H-G---N---V-S---F-R-E---V---  
H-E---  
DRB1\*1001 ---EEV---RVH---YA-Y---R---Q---  
---



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FIGURE 27

	1				50
Sladra-0102	-----	-----	-----	-----	-----
Sladra-0202	-----	-----	-----	-----	-----
Sladra-0203	-----	-----	-----	-----	-----
Sladra-0101	-----	-----	-----	-----	-----
Sladra-02011	-----	-----	-----	-----	-----
Sladra-02012	-----	-----	-----	-----	-----
Consensus	VENHVIIQAE	FYLSPDKSGE	FMFDFDGDEI	FHVDM EKRET	VWRLEEF GHF
	51				100
Sladra-0102	-----	-----	-----	-----	-----
Sladra-0202	-----	-----	-m-----	-----	-----
Sladra-0203	-----	-----	-----	-----	-----
Sladra-0101	-----	-----	-----	-----	-----
Sladra-02011	-----	-----	-m-----	-----	-----
Sladra-02012	-----	-----	-m-----	-----	-----
Consensus	ASFEAQGALA	NIAVDKANLE	ILIKRSNNTF	NTNVPPEVTV	LSDKPVELGE
	101				150
Sladra-0102	-----	-----	-----	-----	-----
Sladra-0202	-----	-----	-----	-----	-----
Sladra-0203	-----	-----	-----	-----	-----
Sladra-0101	-----	-----	-----	-----	-----
Sladra-02011	-----	-----	-----	-----	-----
Sladra-02012	-----	-----	-----	-----	-----
Consensus	PNILICFIDK	FSPPVVNVTV	LRNGSPVTRG	VSETVFLPRE	DHLFRKFHYL
	151				200
Sladra-0102	-----	-----	-----	-r-----	-----
Sladra-0202	-----	-----	-----	-----	-----
Sladra-0203	-----	-----	-----	-----	-----
Sladra-0101	-----	-----	-----	-----	-----
Sladra-02011	-----	-----	-----	-----	-----
Sladra-02012	-----	-----	-----	-----	-----
Consensus	PFMPSTEDVY	DCQVEHWGLD	KPLLKHWEFE	AQTPLPETTE	NTVCALGLIV
	201		228		
Sladra-0102	-----	-----	-----		
Sladra-0202	-----	-----	---h---		
Sladra-0203	-----	-----	---h---		
Sladra-0101	-----	-----	-----		
Sladra-02011	-----	-----	-----		
Sladra-02012	-----	-----	-----		
Consensus	ALVGIIVGTV	LIKGVRKGN	ATERRGPL		

Group 01 has a leucine at residue 72 and Group 02 has a methionine.  
No other polymorphisms have been found in the alpha 1 domain.

## Amino Acid Sequences of SLA DRA Alleles



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FIGURE 28

	1	2A	4A	50
Sladrb-T	--iaq--ffm g-s-----	-----y-qky l-----	-----l-f--	
Sladrb-N	-----f- g-a-----	-----d-y f--d-y--	-----f-e-	
Sladrb-M	-----f- g-----	--q-----	-----	
Sladrb-Z	-----y- -----	-----y--	-----	
Sladrb-AD	-----	-----l--	-----	
Sladrb-C	--i-----q -----	-----q-n c--y--	-----	
Sladrb-WX	-----v-h--r--	-----l--d-y f-----	-----f--	
Sladrb-Y	--i---ffm g-s-----	-----y-lky l-----	-----l---e-	
Consensus	RDTPPHFLHL LKFECHFFNG	TERVRLLEQ	YYNGEEFVRF	DSDVGEYRAV
	51	6A	8A	100
Sladrb-T	-----m-- k--v-----	-----	-----	
Sladrb-N	--f-----fm-- k-----v--	-----e-e--	-----r--	
Sladrb-M	-----n y-----	-----ts--	-----r--	
Sladrb-Z	-----v--d -----	-----ts--	-----r--	
Sladrb-AD	-----d -----	-----	-----	
Sladrb-C	-----r-----a-----	-----	-----	
Sladrb-WX	-----i--d s--s--i	-----	-----	
Sladrb-Y	-----ek-----gvs-s--	-----	-----	
Consensus	TELGRPDAKY WNSQKDLLEQ	RRAEVDTYCR	HNYRILDFTL	VPRRAEPTVT
	101			150
Sladrb-T	-----	-----	-----	
Sladrb-N	-----	-----	-----	
Sladrb-M	-----	-----	-----	
Sladrb-Z	-----	-----	-----	
Sladrb-AD	-----	-----	-----	
Sladrb-C	-----	-----	-----	
Sladrb-WX	-----	-----	-----	
Sladrb-Y	-----	-----	-----	
Consensus	VYPAKTQPLQ HHNLLVCSVT	GFYPGHVEVR	WFRNGQEEAA	GVVSTGLIPN
	151			200
Sladrb-T	-----	-----	-----	
Sladrb-N	-----	-t-----s	-----	
Sladrb-M	-----	-----	-----	
Sladrb-Z	-----	-----	-----	
Sladrb-AD	-----	-----	-----	
Sladrb-C	-----	-----	-----	
Sladrb-WX	-----	-----	-----	
Sladrb-Y	-----	-----	-----	
Consensus	GDWTFQTMVM LETVPQSGEV	YSCRVEHPSL	TSPVTVEWRA	RSESAQGKMM
	201		237	
Sladrb-T	--v-----	-----	-----	
Sladrb-N	-----	-----	-----	
Sladrb-M	-----	-----	-----	
Sladrb-Z	--v-----	-----	-----	
Sladrb-AD	-----	-----	-----	
Sladrb-C	--v-----	-----	-----	
Sladrb-WX	-----	-----	-----	
Sladrb-Y	--v-----	-----	-----	
Consensus	SGIGGFVLGL LFVAVGLFIY	FKNQKGRPAL	QPTGLLS	

Amino Acid Sequence of SLA-DRB Alleles



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FIGURE 29

	1				50
Sladqa-02021	-----	-----	-----	-----g	-----
Sladqa-02022	-----	-----	-----	-----g	-----
Sladqa-02023	-----	-----	-----	-----g	-----
Sladqa-0201	-----	-----	-----	-----	-----
Sladqa-0101	-----	-----	-r-----	-q-----	-----r--
Sladqa-0103	-----	-----	-r-f-----	-q-----	-----r--
Sladqa-0102	-----	-----	-----f-----	-----	-----r--
Consensus	EDIAADHVAS	YGLNVYQSYG	PSGYYTHEFD	GDEEFYVDLE	KKETVWQLPL
	51				100
Sladqa-02021	----r-----	-----	-----	-----	-----
Sladqa-02022	----r-----	-----	-----	-----	-----
Sladqa-02023	----r-----	-----	-----	-----	-----
Sladqa--201	-----	-----	-----	-----	-----
Sladqa-0101	--e-----	-----l-	-----vt--	-----k--	-----s--
Sladqa-0103	--e-----	-----l-	-----vt--	-----k--	-----s--
Sladqa-0102	--e-----	-----l-	-----vt--	-----	-----s--
Consensus	FSKFTSFDPQ	GALRNIATAK	HNLNILIKRS	NNTAAVNQVP	EVTVPKSPV
	101				150
Sladqa-02021	-----	-----	-----	-----	-----
Sladqa-02022	-----	-----	-----	-----	-----
Sladqa-02023	-----	-----	-----	-----	-----
Sladqa-0201	-----	-----	-----	-----	-----
Sladqa-0101	i-----	-----s	-----	-----k-----	-----
Sladqa-0103	i-----	-----s	-----	-----k-----	-----
Sladqa-0102	i-----	-----s	-----	-----k-----	-----
Consensus	MLGQPNTLIC	HVDNIFPPVI	NITWLKNGHS	VTEGFSETSF	LSKNDHSFLK
	151				200
Sladqa-02021	-----	-----	-----	-----	-----
Sladqa-02022	-----	-----	-----	-----	-----
Sladqa-02023	-----	-----	-----	-----	-----
Sladqa-0201	-----	-----	-----	-----	-----
Sladqa-0101	-----	-----	-----	-----	-----
Sladqa-0103	-----	-----	-----	-----	-----
Sladqa-0102	-----	-----	-----	-----	-----
Consensus	ISYLTFLPSD	DDFYDCKVEH	WGLDKPLLKH	WEPEIPAPMS	ELTETVVCAL
	201			232	
Sladqa-02021	-----	-----	-----	-----	-----
Sladqa-02022	-----	-----	-----	-----	-----
Sladqa-02023	-----	-----	-----	-----	-----
Sladqa-0201	-----	-----	-----	-----	-----
Sladqa-0101	-----	-----	-----	-----	-----
Sladqa-0103	-----	-----	-----	-----	-----
Sladqa-0102	-----	-----	-----	-----	-----
Consensus	GLIVGLVGIV	VGTVFIIQGL	RSGGPSRHQG	SL	

Group 01 is 231 amino acids (deletion at 132) and Group 02 is 232 amino acids

## Amino Acid Sequences of SLA-DQA Alleles



FIGURE 30

	1					50
Sladqb-D	-----v	---g---	y- ---ws-d-	-----fl-	---m--y--	
Sladqb-D2	-----f	---g---	y- ---ws-d-	-----fl-	---m--y--	
Sladqb-XA	-----	-----	-----g---	wv-----	-----	
Sladqb-Z	-----	-----y-	-----l---	wv--r---	-----	
Sladqb-W	-----	-----	-----l-t-	-----ya-	-----y--	
Sladqb-T	-----	-----	-----llt-	-----	---n--y--	
Sladqb-Y	-----	---g-----	-----h-t-	-----	-----	
Sladqb-C	-----f	---g---	y- ---g---	-----l-	-----	
Consensus	GRDSPQDFVY	QFKFECYFFN	GTQVRV-VAR	YIYNQEEHVR	FDSDVGEFRA	
	51					100
Sladqb-D	-----	-l-----ea-	-----	-----	-----	
Sladqb-D2	-----	-l-----ea-	-----	-----	-----	
Sladqb-XA	-----t-	-----	-----v---	-----	-----	
Sladqb-Z	-----	-----e-	-----	-----	-----	
Sladqb-W	-----a-	---s--i-	-t-----	-----	-----	
Sladqb-T	-----	-----	-t-----	-----	-----	
Sladqb-Y	-----	-----f-	-t-----	-----	-----	
Sladqb-C	-----e-	s--s-	-m--v-r-	-----	-----	
Consensus	VTPLGRPDAD	YWNGQKDVLE	QKRAELDTVC	KHNYQIEEGT	TLQRRVQPTV	
	101					150
Sladqb-D	-----	-----	-----	-----	-----	
Sladqb-D2	-----	-----	-----	-----	-----	
Sladqb-XA	-----	-----	-----	-----	-----	
Sladqb-Z	-----	-----	-----	-----	-----	
Sladqb-W	-----	-----	-----	-----	-----	
Sladqb-T	-----	-----	-----	-----	-----	
Sladqb-Y	-----	-----	-----	-----	-----	
Sladqb-C	-----	-----	-----	-----	-----	
Consensus	TISPSKAEAL	NHHNLLVCAV	TDFYPSQVKV	QWFRNGQEET	AGVVSTPLIR	
	151					200
Sladqb-D	-----	-----	-----	-----	-----	
Sladqb-D2	-----	-----	-----	-----	-----	
Sladqb-XA	-----	-----	-----	--n-----	-----	
Sladqb-Z	-----	-----	-----	-----	-----	
Sladqb-W	-----	-----	-----	-----	-----	
Sladqb-T	-----	-----	-----	-----	-----	
Sladqb-Y	-----	-----	-----	-----	-----	
Sladqb-C	-----	-----	-----	--n-----	-----	
Consensus	NGDWTYQVLV	MLEMNLQRGD	VYTCRVEHSS	LQSPILVEWR	AQSESAQSKM	
	201		230			
Sladqb-D	-----	-----	-----	-----	-----	
Sladqb-D2	-----	-----	-----	-----	-----	
Sladqb-XA	-----	-----	-----	-----	-----	
Sladqb-Z	-----	-----	-----	-----	-----	
Sladqb-W	-----	-----	-----	-----	-----	
Sladqb-T	-----	-----	-----	-----	-----	
Sladqb-Y	-----	-----	-----	-----	-----	
Sladqb-C	-----	-----	-----	-----	-----	
Consensus	LSGVGGFVLG	LIFLGLGLFI	RHRSQKGLVR			



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FIGURE 31

**Nucleotide and Amino Acid Sequences of ILT3**

```
1 atgatccccaccttcacggctctgctctgcctcgggctgagtctg
M I P T F T A L L C L G L S L
46 ggccccaggaccacatgcaggcagggcccctcccaaacccacc
G P R T H M Q A G P L P K P T
91 ctctgggctgagccaggctctgtgatcagctgggggaactctgtg
L W A E P G S V I S W G N S V
136 accatctggtgtcaggggaccctggaggctcgggagtaccgtctg
T I W C Q G T L E A R E Y R L
181 gataaagaggaaagcccagcaccctgggacagacagaacccactg
D K E E S P A P W D R Q N P L
226 gagcccaagaacaaggccagattctccatcccatccatgacagag
E P K N K A R F S I P S M T E
271 gactatgcaggagataccgtgttactatcgacccctgtaggc
D Y A G R Y R C Y Y R S P V G
316 tggtcacagcccagtgacccctggagctggtgatgacaggagcc
W S Q P S D P L E L V M T G A
361 tacagtaaaccacccctttcagccctgccgagtcctctgtgacc
Y S K P T L S A L P S P L V T
406 tcaggaaagagcgtgaccctgctgtgtcagtcacggagcccaatg
S G K S V T L L C Q S R S P M
451 gacactttccttctgatcaaggagcgggcagcccatcccctactg
D T F L L I K E R A A H P L L
496 catctgagatcagagcacggagctcagcagcaccaggctgaattc
H L R S E H G A Q Q H Q A E F
541 cccatgagtcctgtgacctcagtgacggggggacctacaggtgc
P M S P V T S V H G G T Y R C
586 ttcagctcacacggcttctccactacctgtgtcacacccagtc
F S S H G F S H Y L L S H P S
631 gacccctggagctcatagtctcaggatccttggagggtcccagg
D P L E L I V S G S L E G P R
676 ccctcaccacacaaggtccgtctcaacagctgcaggccctgaggac
P S P T R S V S T A A G P E D
721 cagccctcatgcctacagggtcagtcacccacagtggtctgaga
Q P L M P T G S V P H S G L R
766 aggcactgggaggtactgatcggggtcttgggtggtctccatcctg
R H W E V L I G V L V V S I L
811 cttctctccctcctccttctcctcctccaacactggcgtcag
L L S L L L F L L L Q H W R Q
856 ggaaaacacaggacattggcccagagacaggctgatttccaactg
G K H R T L A Q R Q A D F Q R
901 cctccagggtgcccagccagagcccaaggacgggggcctacag
P P G A A E P E P K D G G L Q
946 aggaggtccagccagctgctgacgtccaggagaaaaacttctgt
R R S S P A A D V Q G E N F C
991 gctgccgtgaagaacacacagcctgaggacggggtgaaatggac
A A V K N T Q P E D G V E M D
1036 actcggagcccacacgatgaagacccccaggcagtgacgtatgcc
T R S P H D E D P Q A V T Y A
1081 aaggtgaaacactccagacctaggagagaaatggcctctcctccc
K V K H S R P R R E M A S P P
1126 tccccactgtctggggaattcctggacacaaaggacagacaggca
S P L S G E F L D T K D R Q A
1171 gaagaggacagacagatggacactgaggctgctgcatctgaagcc
E E D R Q M D T E A A A S E A
1216 ccccaggatgtgacctacgcccagctgcacagctttaccctcaga
P Q D V T Y A Q L H S F T L R
1261 cagaaggcaactgagcctcctccatcccaggaagggcctctcca
Q K A T E P P P S Q E G A S P
1306 gctgagcccagtgctctatgccactctggccatccactaa 1344
A E P S V Y A T L A I H *
```





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FIGURE 32A

**Nucleotide and Amino Acid Sequences of ILT4**

```
1 atgacccccatcgtcacagtcctgatctgtctcgggctgagtcctg
M T P I V T V L I C L G L S L
46 ggccccaggaccccgctgcagacagggaccatccccaagcccacc
G P R T R V Q T G T I P K P T
91 ctgtgggctgagccagactctgtgatcaccaggaggagtcctcgtc
L W A E P D S V I T Q G S P V
136 accctcagttgtcaggggagccttgaagcccaggagtaccgtcta
T L S C Q G S L E A Q E Y R L
181 tatagggagaaaaaatcagcatcttggattacacggatacgaacca
Y R E K K S A S W I T R I R P
226 gagcttgtgaagaacggccagttccacatcccatccatcacctgg
E L V K N G Q F H I P S I T W
271 gaacacacagggcgatatggctgtcagttattacagccgcgctcgg
E H T G R Y G C Q Y Y S R A R
316 tggctctgagctcagtgacccccctggtgctggtgatgacaggagcc
W S E L S D P L V L V M T G A
361 tacccaaaaccaccctctcagcccagcccagccctgtggtgacc
Y P K P T L S A Q P S P V V T
406 tcaggaggaaggggtgacccctccagtgtagtcacaggtggcattt
S G G R V T L Q C E S Q V A F
451 ggcggcttcattctgtgtaaggaaggagaagatgaacacccacaa
G G F I L C K E G E D E H P Q
496 tgctgaactcccagccccatgcccggtgggtcgtcccgcgccatc
C L N S Q P H A R G S S R A I
541 ttctccgtgggccccgtgagcccgaatcgaggtggtcgcacagg
F S V G P V S P N R R W S H R
586 tgctatgggttatgacttgaactctccctatgtgtggtcttcaccc
C Y G Y D L N S P Y V W S S P
631 agtgatectcctggagctcctggtccaggtgtttctaagaagcca
S D L L E L L V P G V S K K P
676 tcactctcagtgacagccgggtcctgtcatggcccctggggaaagc
S L S V Q P G P V M A P G E S
721 ctgaccctccagtggtgtctctgatgtcggctatgacagatttgtt
L T L Q C V S D V G Y D R F V
766 ctgtacaaggagggggaacgtgaccttcgccagctccctggccgg
L Y K E G E R D L R Q L P G R
811 cagccccagggtgggctctcccaggccaacttcaccctgggcccct
Q P Q A G L S Q A N F T L G P
856 gtgagccgctcctacgggggaggtacagatgctacggtgcacac
V S R S Y G G Q Y R C Y G A H
901 aacctctcctctgagtgctcggccccccagcgacccccctggacatc
N L S S E C S A P S D P L D I
946 ctgatcacaggacagatccgtggcacacccttcattctcagtgag
L I T G Q I R G T P F I S V Q
991 ccaggccccacagtggcctcaggagagaacgtgacctgctgtgt
P G P T V A S G E N V T L L C
1036 cagtcattggcggcagttccacactttccttctgaccaaggcggga
Q S W R Q F H T F L L T K A G
1081 gcagctgatgccccactccgtctaagatcaatacacgaatatcct
A A D A P L R L R S I H E Y P
1126 aagtaccagggtgaattcccatgagtcctgtgacctcagccac
K Y Q A E F P M S P V T S A H
1171 gcggggacctacaggtgctacggctcactcaactccgacccctac
A G T Y R C Y G S L N S D P Y
```



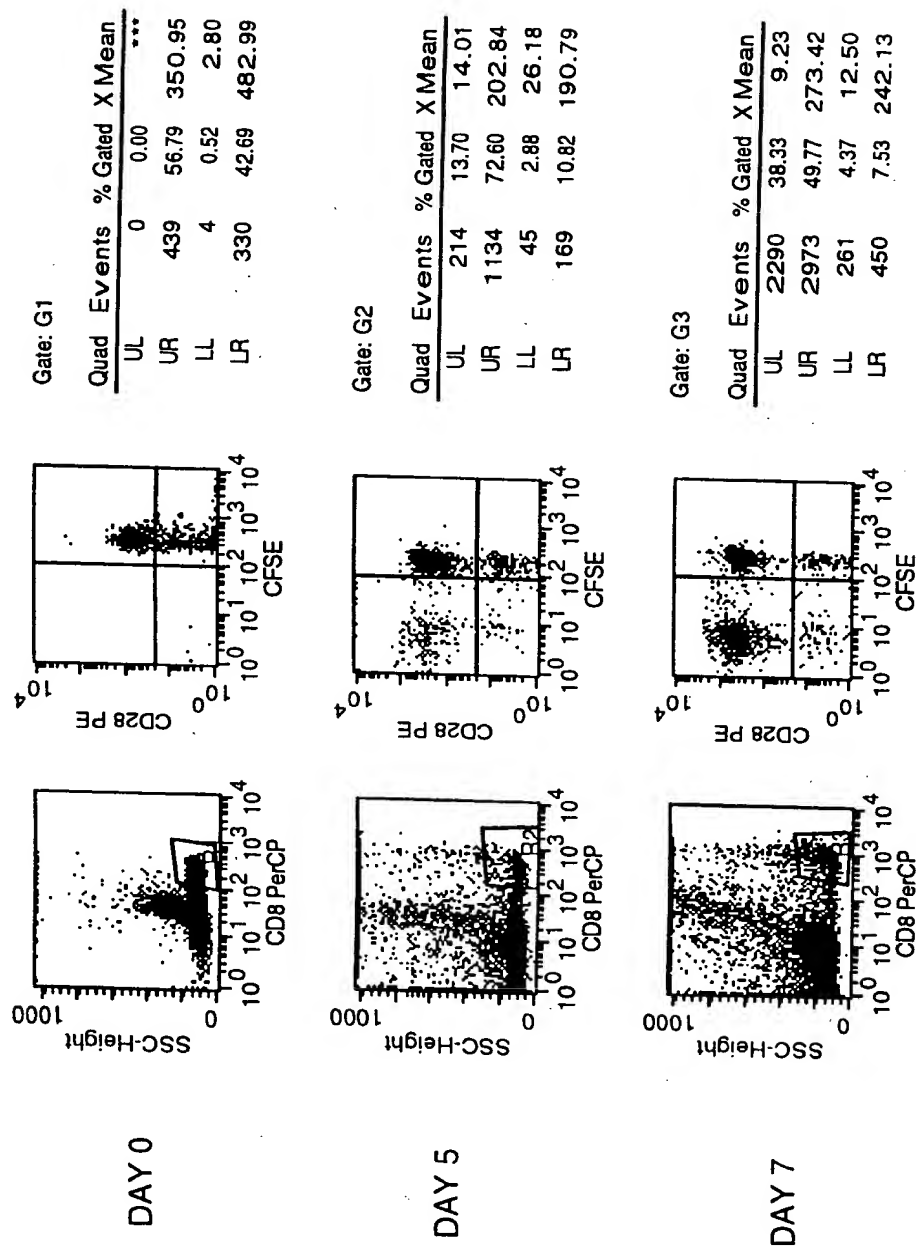
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FIGURE 32B

1216 ctgctgtctcaccaccagtggagcccctggagctcgtgggtctcagga  
L L S H P S E P L E L V V S G  
1261 ccctccatgggttccagccccccaccaccggtcccatctccaca  
P S M G S S P P P T G P I S T  
1306 cctggccctgaggaccagcccctcacccccactgggtcggatccc  
P G P E D Q P L T P T G S D P  
1351 caaagtgggtctgggaaggcacctgggggttgatcggtcatcttg  
Q S G L G R H L G V V I G I L  
1396 gtggccgtcgtcctactgctcctcctcctcctcctcctcctcctc  
V A V V L L L L L L L L L L F L  
1441 atcctccgacatcgacgtcagggcaaactggacatcgaccag  
I L R H R R Q G K H W T S T Q  
1486 agaaaggctgatttccaacatcctgcaggggctgtggggccagag  
R K A D F Q H P A G A V G P E  
1531 cccacagacagaggcctgcagtgagggtccagcccagctgccgac  
P T D R G L Q W R S S P A A D  
1576 gccaggaagaaaacctctatgctgccgtgaaggacacacagcct  
A Q E E N L Y A A V K D T Q P  
1621 gaagatgggggtggagatggacactcgggctgctgcatctgaagcc  
E D G V E M D T R A A A S E A  
1666 cccaggatgtgacctacgccagctgcacagcttgaccctcaga  
P Q D V T Y A Q L H S L T L R  
1711 cggaaggcaactgagcctcctccatcccaggaaagggaacctcca  
R K A T E P P P S Q E R E P P  
1756 gctgagcccagcatctacgccaccctggccatccactag 1794  
A E P S I Y A T L A I H \*

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FIGURE 33

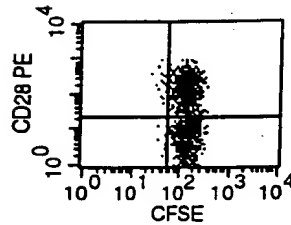




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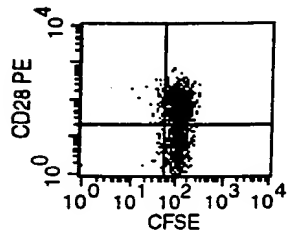
FIGURE 34

0 HR



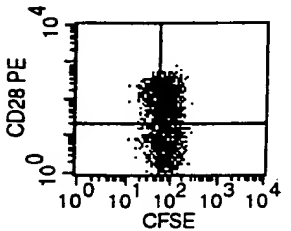
Quad	Events	% Gated	X Mean
UL	18	1.36	40.96
UR	737	55.62	143.24
LL	10	0.75	47.01
LR	560	42.26	151.29

48 HR  
+APC



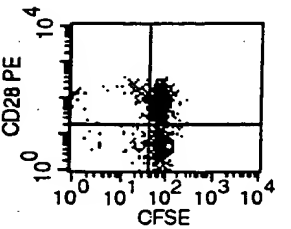
Quad	Events	% Gated	X Mean
UL	53	2.86	42.38
UR	1212	65.48	122.49
LL	23	1.24	41.38
LR	563	30.42	121.41

48 HR  
+APC+IL2



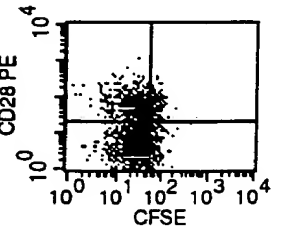
Quad	Events	% Gated	X Mean
UL	645	19.00	39.93
UR	1382	40.72	95.07
LL	311	9.16	40.05
LR	1056	31.11	101.61

72 HR  
+APC



Quad	Events	% Gated	X Mean
UL	114	9.19	27.62
UR	711	57.34	78.27
LL	57	4.60	24.32
LR	358	28.87	83.25

72 HR  
+APC+IL2



Quad	Events	% Gated	X Mean
UL	2911	30.97	28.62
UR	717	7.63	76.38
LL	4965	52.83	29.50
LR	805	8.57	74.95



60/60

FIGURE 35A

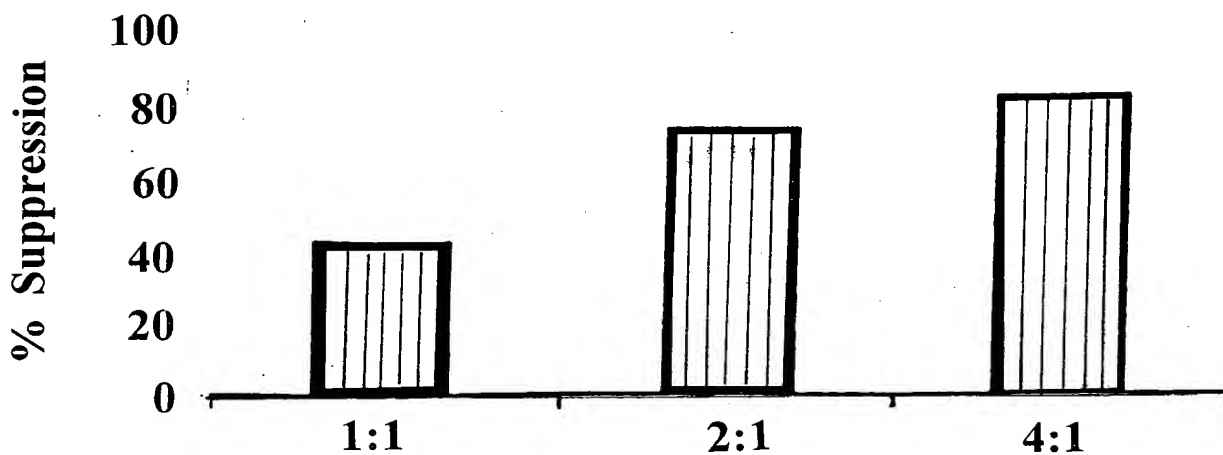


FIGURE 35B

